

**PUMP STATION ASSESSMENT
&
PREVENTIVE MAINTENANCE / CORRECTIVE MEASURES
PLAN**

FOR

Town of Johnston Sewers

Johnston, RI

April 7, 2017

Mayor: Joseph Polisena

Town Hall

1385 Hartford Avenue

Johnston, RI 02919

Department of Public Works Director: Arnold Vecchione

Department of Public Works

100 Irons Avenue

Johnston, RI 02919

Prepared by:

DiPrete Engineering

2 Stafford Court

Cranston, RI 02920

401-943-1000

Table of Contents

1. INTRODUCTION AND OVERVIEW	1
1.1 Purpose	1
1.2 Sewer System Overview	1
1.3 Pump Stations	2
2. INSPECTIONS	4
3. CURRENT CONDITIONS AND PREVENTIVE MAINTENANCE / CORRECTIVE ACTIONS	5
3.1 Current Conditions	5
3.2 Preventive Maintenance / Corrective Actions	5
3.2.1 Structures/Wet Wells and Pumps	5
3.2.2 Alarms	6
3.2.3 Backup Power	6
3.2.4 Control Panels	6
3.2.5 Funding	6

1. Introduction and Overview

1.1 Purpose

The purpose of this plan is to document the current conditions of the sanitary sewer pump stations which are owned, operated and maintained by the Town of Johnston, and all corrective measures the Town plans to complete in the near future.

1.2 Sewer System Overview

This section provides a general description of the Town of Johnston's collection system.

The sanitary sewer system serving Johnston is owned in part by the Town of Johnston and in part by the Narragansett Bay Commission (NBC). The Town owns and operates the secondary lines and pump stations. NBC owns and operates the interceptor lines and a pump station on Central Avenue. Johnston's wastewater collection system includes the following components: approximately 58 miles of Town owned and maintained sewer lines (55 miles of gravity main and 3 miles of force main) and 14 sewer pumping stations (see section 1.3 below for a full list). The system became operational in 1960 and is comprised of components ranging in age from that time to 2017. Almost all Johnston's gravity sewer pipes are 8 inches or 10 inches in diameter. Materials include PVC, vitrified clay (VC), and asbestos cement pipe (AC).

Sewage collected in the Johnston/NBC system is conveyed to the Fields Point Wastewater Treatment Facility. All sewer users on the Johnston/NBC system pay NBC directly.

For further information on the collection system, refer to the "Wastewater Facilities Plan Update for NBC-Owned Interceptors and Town Sewers in Johnston, Rhode Island (WWFP)" completed in 2011 for the Narragansett Bay Commission. The report was submitted to NBC by Pare Corporation with assistance from The BETA Group. A copy of the WWFP is on file in the Town Engineering office. This WWFP update provides detailed information on the Town's sewer collection and conveyance system, along with information on the NBC facilities in Johnston.

1.3 Pump Stations

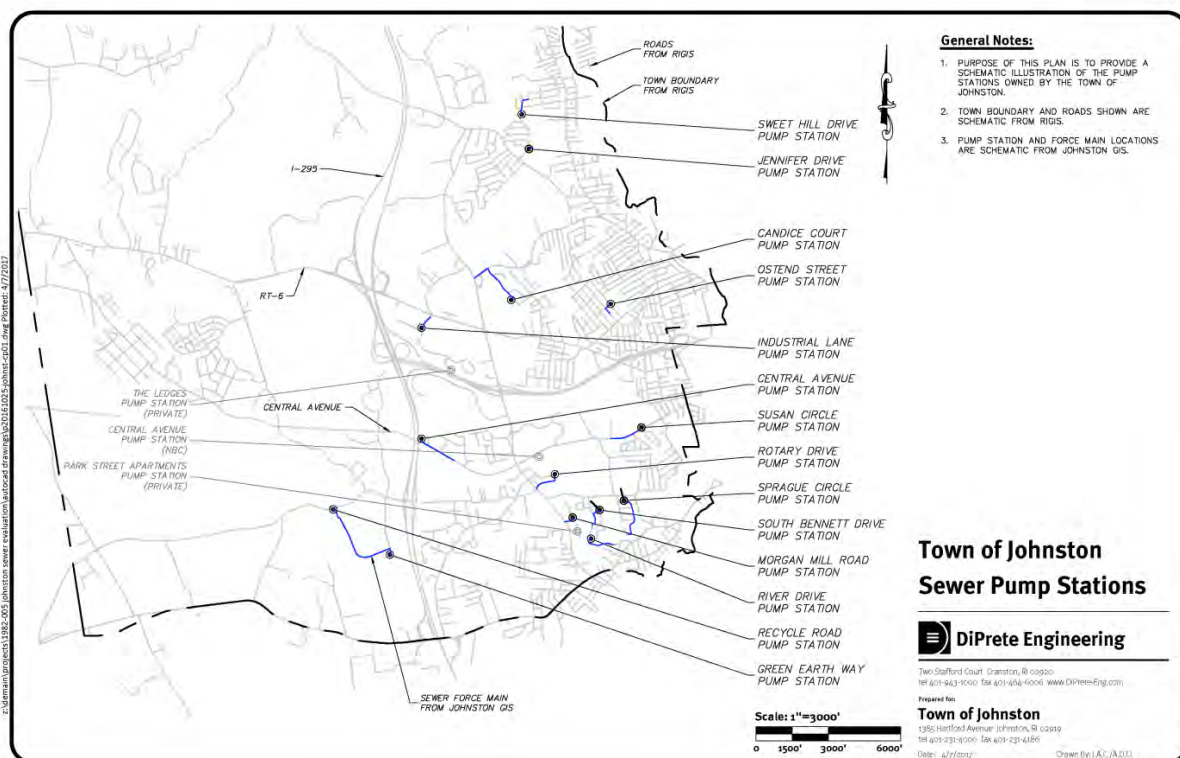
Town of Johnston Pump Stations

The Town of Johnston owns and operates 14 sanitary sewer pumping stations. The stations are generally located in the eastern portion of the Town. A list of all Town owned pump stations is included below:

- Candice Court
- Central Avenue (Town Owned)
- Green Earth Way (formerly known as Austin Way)
- Industrial Lane (formerly known as Old Pocasset Lane)
- Jennifer Drive
- Morgan Mill Road
- Ostend Street
- Recycle Road (formerly known as Shun Pike)
- River Drive (new in April 2017 – replaced station of the same name)
- Rotary Drive
- South Bennett Drive (new in 2017- replaced station formerly known as Morgan Estates and/or LaFazia Drive)
- Sprague Circle
- Susan Circle (formerly/also known as Central Ave pole #20)
- Sweet Hill Drive (formerly/also known as Green Valley Estates)

All Town owned pump stations and force mains are shown schematically on the figure below. A full scale version of the figure is included in Appendix A.

Figure 1



Appendix B includes a photo page of each pump station including an aerial image of the location and 2 to 3 photos of the pump station and vicinity.

It must be noted that the River Drive and South Bennett Road pump stations are both being replaced by new stations that will be on line in April of 2017. The stations are being replaced to mitigate past flooding problems.

There are several residential developments in Johnston that are serviced by low pressure sewers with individual pumping systems. The conditions of these systems are not addressed in this assessment.

Stations Owned and Operated by Others

In addition to the Town owned pump stations, NBC owns and operates a pump station located at #345 Central Avenue and there are two small private pumping stations in Johnston serving residential developments. The conditions of the facilities owned by others are not addressed in this assessment.

2. Inspections

All Town owned pump stations are inspected weekly by Fernco Services. A standard inspection form is completed by the inspector on each visit. If any corrective actions are necessary, the work is completed at that time or noted on the inspection report for follow up.

Exhibit 1 below is an image of a typical inspection report. A copy of the inspection forms for September of 2016 are attached in Appendix C as a running example of the data collected, items noted, and corrective actions taken as part of routine operation of the stations.

The inspection reports are reviewed periodically to see if there are any incremental changes in readings that could be indicators of future problems. If anything is identified, the inspectors are notified to investigate further on their next visit. During the next inspection the items are either addressed immediately or scheduled for future corrective action.

Exhibit 1

FERNCO SERVICES INC.		70648
508-336-3222		
DATE	9-15-16	INITIALS D.H.
STATION	CENTRAL AVE SEWAGE PUMP STATION	
LOCATED	JOHNSTON	
SERVICE CHECK LIST		
1. PUMPS CONDITION		
PUMP #1 - AMPS	19.00 178.0	PUMP #2 - AMPS 19.10 18.00
VOLTAGE	60 HZ	VOLTAGE 60 HZ
GLANDS		GLANDS
PACKING		PACKING
LUBE UNIT		LUBE UNIT
TEST VALVES		TEST VALVES
2. MOTOR CONTROL CENTER		
HOUR METERS PUMP #1	2208.8	13.9
PUMP #2	1282.0	11.3
RUN LIGHTS	OK	ALARM TEST
MANUAL TEST	OK	AUTO TEST OK
GENERATOR TEST	N2	OIL LEVEL
FUEL	BATTERY	ANTI-FREEZE
BUBBLETRON SYSTEM SIMULATION - GAUGE IN INCHES		
LEAD PUMP ON	5.3	OFF 3.0
BOTH PUMPS ON		LAG ON
		OFF
		ALARM ON
		OFF
3. WET WELL		
GREASE BUILD-UP	N2	FLOATS
NEEDS CLEANING	N2	DEBRIS LITTLE
ENZYME PUMP		NEEDS ENZYMES
CL-2 READING		HYPO PUMP
FLOW METER READINGS		NEEDS HYPO
		pH READING
		CURRENT
		PREVIOUS
		DIFFERENCE
4. COMPRESSORS		
OIL LEVEL		GAUGE READING
BLEED SYSTEM		PURGE SYSTEM
RELIEF VALVE		LUBE
COMP #1 AMPS		ON OFF
COMP #2 AMPS		ON OFF
5. BUILDING		
LIGHTS	OK	SUMP PUMP N2
DEHUMIDIFIER	N2	HEATER OFF
	NEEDS CLEANING N2	PAINTING N2
6. SPECIAL NOTES		

3. Current Conditions and Preventive Maintenance / Corrective Actions

3.1 Current Conditions

All pump stations owned and operated by the Town of Johnston are in good reliable working order. All stations have a duplex pump configuration. Records from 2011 to 2016 were reviewed and show there have been no pump station failures resulting in a sanitary sewer overflow during that time period (see Appendix D for a copy of pump station Emergency Calls between 2011 and 2016).

Appendix B includes a photo page of each pump station including an aerial image of the location and 2 to 3 photos of the pump station and vicinity.

Since two of the Town's stations were recently relocated to mitigate flooding issues, all other stations were investigated for potential for flooding issues. FEMA mapping was overlaid on aerial imagery of each pump station to identify stations that were mapped within the flood plain.

Morgan Mill Road and Rotary Drive stations appear to be within the mapped flood plain. Morgan Mill station has a riser on the wet well to protect the station from flooding. The Rotary Drive station appears to be subject to flooding.

A table of current conditions and preventive maintenance / corrective measures was compiled for the 14 Johnston owned pump stations. A copy of the spreadsheet is attached to this plan as Appendix E. A description of the condition and the preventive maintenance / corrective measures is provided in the next section of this plan.

3.2 Preventive Maintenance / Corrective Actions

This section of the plan includes a description of the condition of each station and preventive maintenance / correction action needed, grouped by types of actions.

3.2.1 Structures/Wet Wells and Pumps

The stations listed below are all approximately 30 years or more old.

- Candice Court
- Industrial Lane
- Morgan Mill Road
- Ostend Street
- Sprague Circle
- Susan Circle
- Sweet Hill Drive

Of these stations, only Candice Court and Sprague Circle still have the original pumps. These pumps are nearing the end of their life cycle. The Public Works - Utilities Division (PW-UD) is exploring options for replacing the pumps within the next 5 years. Grease and solids build up has been identified as an issue in both the Candice Court and Sprague Circle stations. The planned corrective measure is to subcontract biannual cleaning of those stations. Contracts are scheduled to be in place by the end of 2017.

The Industrial Lane station is over 35 years old. It is functioning well, but reaching the end of its life cycle. The current need at this station is improvements to the electrical controls. Over the next several months the PW-UD is evaluating the options of upgrading the electrical controls or replacing the pump station entirely. The corrective measure scheduled is to select a remedy and request proposals for design/construction by the end of 2017.

Both pumps in the Morgan Mill Road station are nearing the end of their life cycle. The corrective measure scheduled is to install new pumps by the end of 2017.

The Town will investigate the potential risk of flooding of the Rotary Drive station, and if appropriate, by the end of 2017 develop a corrective action plan to address flooding.

The Susan Circle station has one relatively new pump and one older pump. The older pump is in need of replacement. The scheduled corrective measure is to replace the older pump by the end of 2017.

3.2.2 Alarms

Only Central Avenue, Green Earth Way, and Recycle Road pump stations have fully automated and monitored alarm systems. The PW-UD is proposing to install automated alarms at all 11 stations that don't currently have them and enter into a contract with a monitoring service. Work is scheduled to be complete in 2017.

3.2.3 Backup Power

Only Central Avenue, Green Earth Way, Recycle Road, and Rotary Drive pump stations have permanent emergency generators on site. The PW-UD wants to have the ability to power every station in the event of a power outage. The PW-UD is planning to install a receptacle at each station to allow connection of a portable emergency power generator. They are also planning to purchase a generator(s) suitable of powering each station. Installation of all receptacles is scheduled to be complete in 2017.

3.2.4 Control Panels

The Jennifer Drive and Sweet Hill Drive stations would both benefit from installation of replacement control panels. Replacement of the control panels is scheduled to be complete by the end of 2017.

3.2.5 Funding

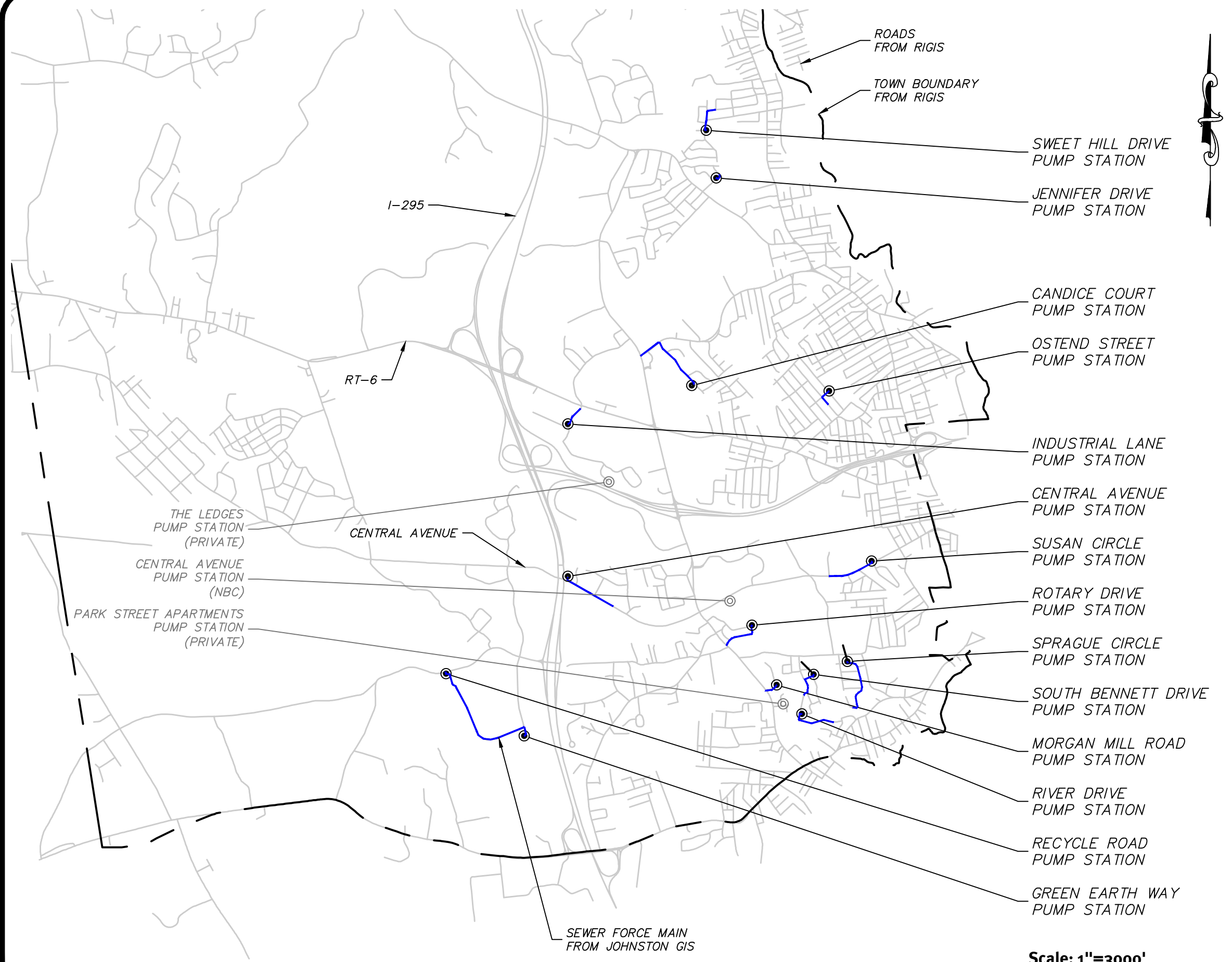
The majority of the maintenance and corrective measures proposed need funding in the Town's 2017/2018 budget. Therefore, the schedule for all work is subject to funding approval by the Town Council. If funding for all proposed work isn't approved in the 2017/2018 budget, the PW-UD will prioritize the work to address the most significant issues soonest.

Appendix A

Town of Johnston

Sewer Pump Stations Location Map

z:\domain\projects\1982-005 johnston sewer evaluation\autocad drawings\p20161025-johnst-cp01.dwg Plotted: 4/7/2017



General Notes:

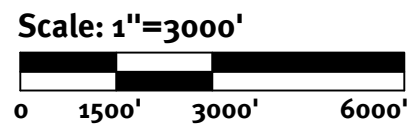
1. PURPOSE OF THIS PLAN IS TO PROVIDE A SCHEMATIC ILLUSTRATION OF THE PUMP STATIONS OWNED BY THE TOWN OF JOHNSTON.
2. TOWN BOUNDARY AND ROADS SHOWN ARE SCHEMATIC FROM RIGIS.
3. PUMP STATION AND FORCE MAIN LOCATIONS ARE SCHEMATIC FROM JOHNSTON GIS.

Town of Johnston Sewer Pump Stations



Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.DiPrete-Eng.com

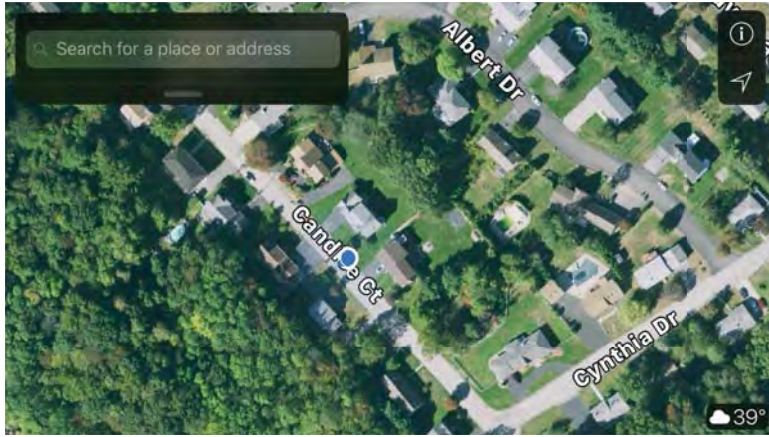
Prepared for:
Town of Johnston
1385 Hartford Avenue Johnston, RI 02919
tel 401-231-4000 fax 401-231-4186
Date: 4/7/2017 Drawn By: J.A.C./A.D.O.



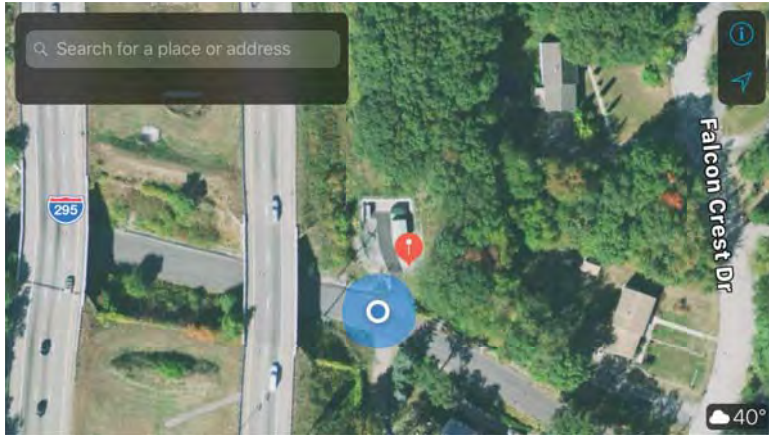
Appendix B

Town of Johnston

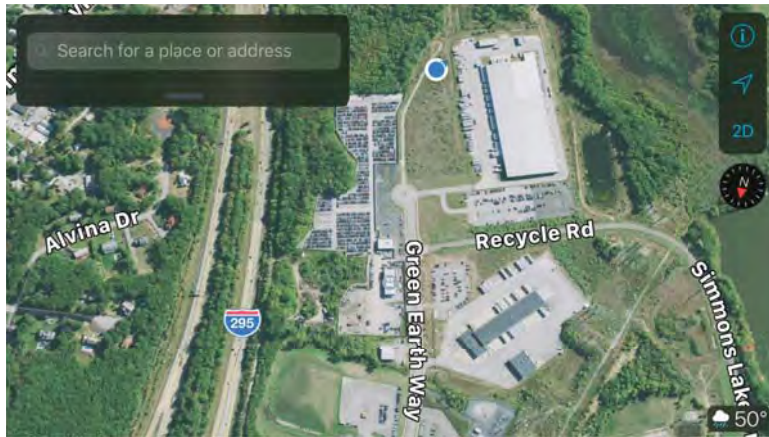
Sewer Pump Stations Aerial Image and Vicinity Photos



Candice Court Pump Station
Aerial Image and Vicinity Photos
March, 2017



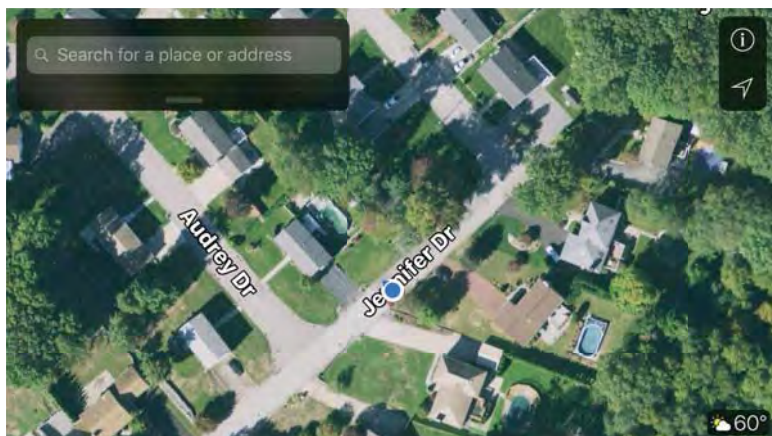
Central Avenue Pump Station
Aerial Image and Vicinity Photos
March, 2017



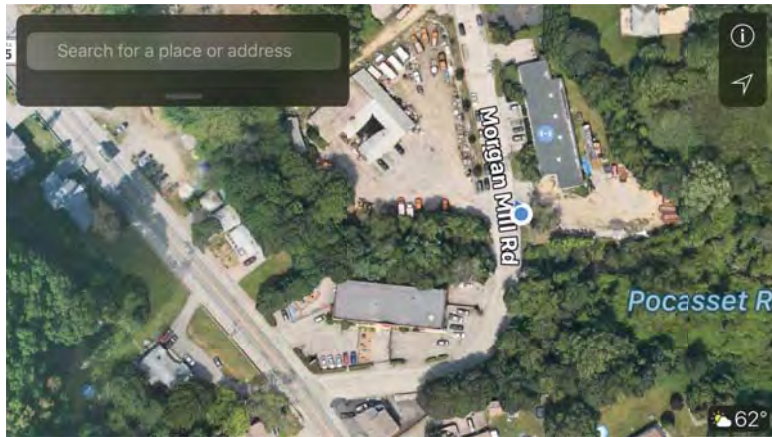
Green Earth Way Pump Station
Aerial Image and Vicinity Photos
March, 2017



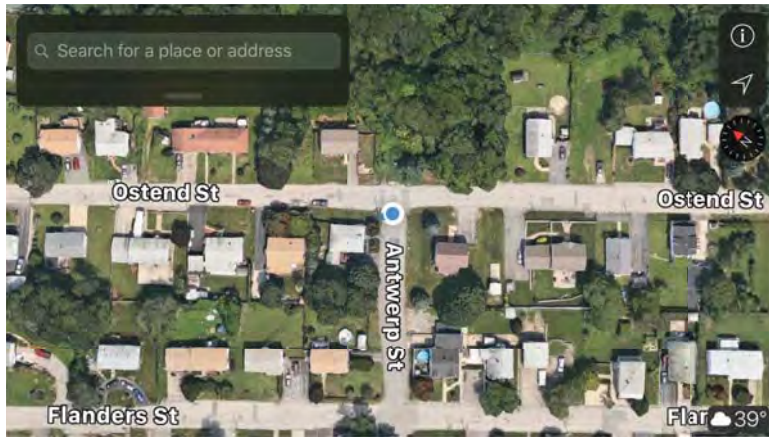
Industrial Lane Pump Station
Aerial Image and Vicinity Photos
March, 2017



Jennifer Drive Pump Station
Aerial Image and Vicinity Photos
March, 2017



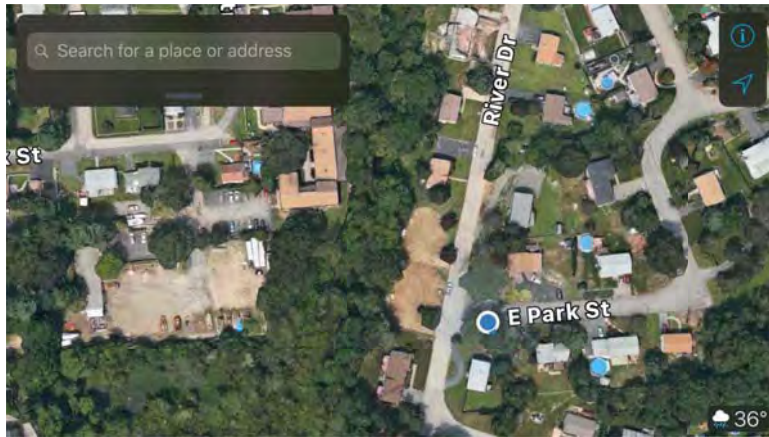
Morgan Mill Road Pump Station
Aerial Image and Vicinity Photos
March, 2017



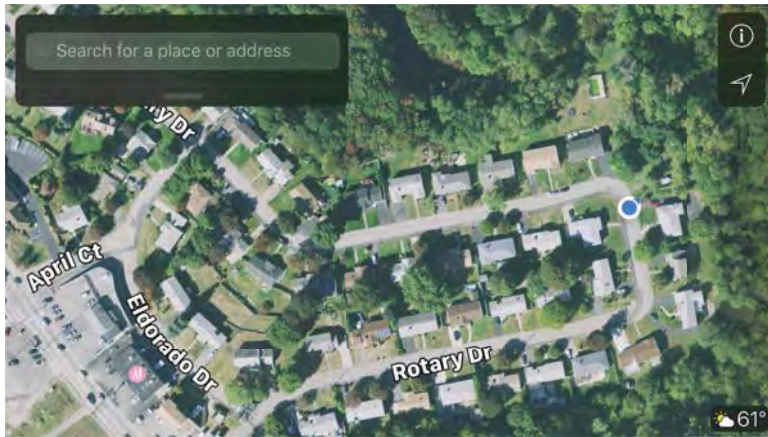
Ostend Street Pump Station
Aerial Image and Vicinity Photos
March, 2017



Recycle Road Pump Station
Aerial Image and Vicinity Photos
March, 2017



River Drive Pump Station
Aerial Image and Vicinity Photos
March, 2017



Rotary Drive Pump Station
Aerial Image and Vicinity Photos
March, 2017



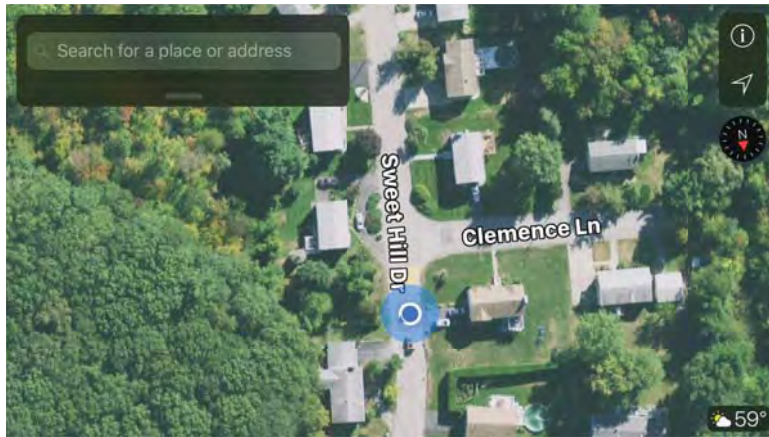
South Bennett Drive Pump Station
Aerial Image and Vicinity Photos
March, 2017



Sprague Circle Pump Station
Aerial Image and Vicinity Photos
March, 2017



Susan Circle Pump Station
Aerial Image and Vicinity Photos
March, 2017



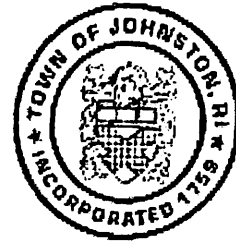
Sweet Hill Drive Pump Station
Aerial Image and Vicinity Photos
March, 2017

Appendix C

Town of Johnston

Typical Pump Station Inspection Reports

FY 16/17



OPEN PO INVOICE TRANSMISSION FORM FOR DEDUCTIVE BILLING

DATE October 7, 2016

PO# 10022651

ACCOUNT # 1-450-03-1420-53700-00

VENDOR NAME FERNCO PUMP SERVICE, INC

DEPARTMENT DPW - UTILITIES

Description: Weekly Service Check for pump stations - Sgt.

NUMBER OF INVOICES ATTACHED 1

TOTALING \$ 3000.00

SUBMITTED BY Debbie Pavone

Division Head And Veecher 10-6-16

Scanned

FERNCO SERVICES INC.

508-336-3222

DATE 9-2-16 INITIALS D.W.

660 WSE 69789
SL

STATION CANDICK CT.

LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>13.7</u>	PUMP #2 - AMPS	<u>11.3</u>
<u>16.7</u>	<u>14.8</u>	<u>13.7</u>	<u>16.8</u>
VOLTAGE	<u>237</u> ³⁰	VOLTAGE	<u>237</u> ³⁰
GLANDS	<u> </u>	GLANDS	<u> </u>
PACKING	<u> </u>	PACKING	<u> </u>
LUBE UNIT	<u> </u>	LUBE UNIT	<u> </u>
TEST VALVES	<u> </u>	TEST VALVES	<u> </u>

2. MOTOR CONTROL CENTER

hour meters	PUMP #1	<u>7524.9</u>	<u>6.5</u>	PUMP #2	<u>6899.4</u>	COUNTER OUT
RUN LIGHTS	<u>N/A</u>			ALARM TEST	<u>OK</u>	
MANUAL TEST	<u>N/A</u>			AUTO TEST	<u>OK</u>	
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u> </u>	ANTI-FREEZE	<u> </u>	
FUEL	<u> </u>	BATTERY	<u> </u>	HOUR METER	<u> </u>	
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES						
LEAD PUMP ON	<u> </u>	OFF	<u> </u>	LAG ON	<u> </u>	OFF <u> </u>
BOTH PUMPS ON	<u> </u>	OFF	<u> </u>	ALARM ON	<u> </u>	OFF <u> </u>

3. WET WELL

GREASE BUILD-UP	<u>YES</u>	FLOATS	<u>OK</u>	DEBRIS	<u>YES</u>
NEEDS CLEANING	<u>YES</u>	NEEDS ENZYMES	<u> </u>		
ENZYME PUMP	<u> </u>	HYPO PUMP	<u> </u>	NEEDS HYPO	<u> </u>
CL ₂ READING	<u> </u>	pH READING	<u> </u>		
FLOW METER READINGS					

<u> </u>	<u> </u>	CURRENT
<u> </u>	<u> </u>	PREVIOUS
<u> </u>	<u> </u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u> </u>	GAUGE READING	<u> </u>
BLEED SYSTEM	<u> </u>	PURGE SYSTEM	<u> </u>
RELIEF VALVE	<u> </u>	LUBE	<u> </u>
COMP #1 AMPS	<u> </u>	ON	<u> </u> OFF <u> </u>
COMP #2 AMPS	<u> </u>	ON	<u> </u> OFF <u> </u>

5. BUILDING

LIGHTS	<u> </u>	SUMP PUMP	<u> </u>	HEATER	<u> </u>
DEHUMIDIFIER	<u> </u>	NEEDS CLEANING	<u> </u>	PAINTING	<u> </u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE:

FERNCO SERVICES INC.

508-336-3222

DATE 9-8-16

INITIALS D.N.

70598

STATION CANDICE CT.

LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS

13.3

16.8

14.7

PUMP #2 - AMPS

12.1

12.7

16.2

VOLTAGE

237 3/4

GLANDS

PACKING

LUBE UNIT

TEST VALVES

VOLTAGE

237 3/4

GLANDS

PACKING

LUBE UNIT

TEST VALVES

2. MOTOR CONTROL CENTER

hour meters PUMP #1

7509.6 4.7

PUMP #2

6848.7

control
out

RUN LIGHTS

N/A

ALARM TEST

OK

MANUAL TEST

N/A

AUTO TEST

OK

GENERATOR TEST

N/A

OIL LEVEL

ANTI-FREEZE

FUEL

BATTERY

hour meter

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON

OFF

LAG ON

OFF

BOTH PUMPS ON

OFF

ALARM ON

OFF

3. WET WELL

GREASE BUILD-UP

YES

FLOATS

OK

DEBRIS

YES

NEEDS CLEANING

YES

NEEDS ENZYMES

ENZYME PUMP

1

HYPO PUMP

1

NEEDS HYPO

CL-2 READING

1

pH READING

1

FLOW METER READINGS

1

CURRENT

PREVIOUS

DIFFERENCE

4. COMPRESSORS

OIL LEVEL

BLEED SYSTEM

RELIEF VALVE

COMP #1 AMPS

COMP #2 AMPS

GAUGE READING

PURGE SYSTEM

LUBE

ON

OFF

ON

OFF

5. BUILDING

LIGHTS

DEHUMIDIFIER

SUMP PUMP

NEEDS CLEANING

HEATER

PAINTING

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70650

DATE 9-16-16

INITIALS D.N.

STATION CANDICE CT.

LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS

17.0

13.5

15.3

PUMP #2 - AMPS

12.3

13.1

17.1

VOLTAGE

239.35

GLANDS

PACKING

LUBE UNIT

TEST VALVES

VOLTAGE

239.35

GLANDS

PACKING

LUBE UNIT

TEST VALVES

2. MOTOR CONTROL CENTER

HOOR METERS PUMP #1

7616.8

7.2

PUMP #2

6850.5

1.8

RUN LIGHTS

N/A

ALARM TEST

OK

MANUAL TEST

N/A

AUTO TEST

OK

GENERATOR TEST

N/A

OIL LEVEL

ANTI-FREEZE

FUEL

BATTERY

HOOR METER

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON

OFF

LAG ON

OFF

BOTH PUMPS ON

OFF

ALARM ON

OFF

3. WET WELL

GREASE BUILD-UP

YES

FLOATS

OK

DEBRIS

YES

NEEDS CLEANING

YES

NEEDS ENZYMES

ENZYME PUMP

1

HYPO PUMP

NEEDS HYPO

CL-2 READING

1

pH READING

1

FLOW METER READINGS

CURRENT

PREVIOUS

DIFFERENCE

4. COMPRESSORS

OIL LEVEL

BLEED SYSTEM

RELIEF VALVE

COMP #1 AMPS

COMP #2 AMPS

GAUGE READING

PURGE SYSTEM

LUBE

ON

OFF

ON

OFF

5. BUILDING

LIGHTS

SUMP PUMP

HEATER

DEHUMIDIFIER

NEEDS CLEANING

PAINTING

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70684

DATE 9-23-16 INITIALS DN

STATION CANDICE CT.

LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>13.7</u>	PUMP #2 - AMPS	<u>12.3</u>
<u>16.1</u>	<u>14.6</u>	<u>12.1</u>	<u>16.3</u>
VOLTAGE	<u>235 3Ø</u>	VOLTAGE	<u>235 3Ø</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

hour METERS PUMP #1	<u>7523.2</u>	6.4	PUMP #2	<u>6848.4</u>	<u>6</u>
RUN LIGHTS	<u>N/A</u>		ALARM TEST	<u>OK</u>	
MANUAL TEST	<u>N/A</u>		AUTO TEST	<u>OK</u>	
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>"</u>	ANTI-FREEZE	<u>"</u>
FUEL	<u>"</u>	BATTERY	<u>"</u>	HOUR METER	<u>"</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES					
LEAD PUMP ON	<u>/</u>	OFF	<u>/</u>	LAG ON	<u>/</u>
BOTH PUMPS ON	<u>/</u>	OFF	<u>/</u>	ALARM ON	<u>/</u>

3. WET WELL

GREASE BUILD-UP	<u>YES</u>	FLOATS	<u>OK</u>	DEBRIS	<u>YES</u>
NEEDS CLEANING	<u>YES</u>	NEEDS ENZYMES	<u>/</u>		
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL ₂ READING	<u>/</u>	pH READING	<u>/</u>		
FLOW METER READINGS					

<u>/</u>	CURRENT
<u>/</u>	PREVIOUS
<u>/</u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>
COMP #2 AMPS	<u>/</u>	OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>/</u>	SUMP PUMP	<u>/</u>	HEATER	<u>/</u>
DEHUMIDIFIER	<u>/</u>	NEEDS CLEANING	<u>/</u>	PAINTING	<u>/</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE

FERNCO SERVICES INC.

508-336-3222

DATE

9-30-16

INITIALS

D.N.

70730

STATION

CANDICE CT.

LOCATED

JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS

16.5

13.5

15.1

PUMP #2 - AMPS

13.2

13.4

17.0

VOLTAGE

238.3

GLANDS

PACKING

LUBE UNIT

TEST VALVES

VOLTAGE

238.3

GLANDS

PACKING

LUBE UNIT

TEST VALVES

2. MOTOR CONTROL CENTER

HOUR METERS PUMP #1

7508.9

5.7

RUN LIGHTS

NA

MANUAL TEST

NA

GENERATOR TEST

NA

OIL LEVEL

"

FUEL

"

BATTERY

"

PUMP #2

6847.1

0

ALARM TEST

OK

AUTO TEST

OK

ANTI-FREEZE

"

HOUR METER

"

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON

OFF

LAG ON

OFF

BOTH PUMPS ON

OFF

ALARM ON

OFF

3. WET WELL

GREASE BUILD-UP

YES

FLOATS

OK

DEBRIS

YES

NEEDS CLEANING

YES

NEEDS ENZYMES

ENZYME PUMP

1

HYPO PUMP

NEEDS HYPO

CL-2 READING

1

pH READING

FLOW METER READINGS

CURRENT

PREVIOUS

DIFFERENCE

4. COMPRESSORS

OIL LEVEL

BLEED SYSTEM

RELIEF VALVE

COMP #1 AMPS

COMP #2 AMPS

GAUGE READING

PURGE SYSTEM

LUBE

ON

OFF

ON

OFF

5. BUILDING

LIGHTS

DEHUMIDIFIER

SUMP PUMP

NEEDS CLEANING

HEATER

PAINTING

6. SPECIAL NOTES

CUSTOMER SIGNATURE:

FERNCO SERVICES INC.

508-336-3222

70610

DATE 9-8-16 INITIALS D.N.
STATION CENTRAL AVE SEWAGE PUMP STATION
LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>17²⁰</u> <u>18.10</u>	PUMP #2 - AMPS	<u>19.1⁰</u> <u>18.20</u>
VOLTAGE	<u>60 HZ</u>	VOLTAGE	<u>60 HZ</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

HOUR METERS PUMP #1	<u>2195.9</u>	<u>17.1</u>	PUMP #2	<u>1777.7</u>	<u>15.3</u>
RUN LIGHTS	<u>OK</u>		ALARM TEST	<u>/</u>	
MANUAL TEST	<u>OK</u>		AUTO TEST	<u>OK</u>	
GENERATOR TEST	<u>NO</u>	OIL LEVEL	<u>/</u>	ANTI-FREEZE	<u>/</u>
FUEL	<u>/</u>	BATTERY	<u>/</u>	HOUR METER	<u>/</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES					
LEAD PUMP ON	<u>5.5</u>	OFF	<u>3.0</u>	LAG ON	<u>/</u>
BOTH PUMPS ON	<u>/</u>	OFF	<u>/</u>	ALARM ON	<u>/</u>
				OFF	<u>/</u>

3. WET WELL

GREASE BUILD-UP	<u>NO</u>	FLOATS	<u>/</u>	DEBRIS	<u>LITTLE</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u>/</u>		
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL-2 READING	<u>/</u>	pH READING	<u>/</u>		
FLOW METER READINGS					
	<u>/</u>	CURRENT	<u>/</u>		
		PREVIOUS	<u>/</u>		
		DIFFERENCE	<u>/</u>		

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>
COMP #2 AMPS	<u>/</u>	OFF	<u>/</u>
		ON	<u>/</u>
		OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>OK</u>	SUMP PUMP	<u>N/A</u>	HEATER	<u>OFF</u>
DEHUMIDIFIER	<u>N/A</u>	NEEDS CLEANING	<u>NO</u>	PAINTING	<u>NO</u>

6. SPECIAL NOTES

WORKED 3WAY VALVE

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70648

DATE 9-15-16 INITIALS D.N.
STATION CENTRAL AVE SEWAGE PUMP STATION
LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>19.00</u>	PUMP #2 - AMPS	<u>19.10</u>
	<u>17.80</u>		<u>18.00</u>
VOLTAGE	<u>60 HZ</u>	VOLTAGE	<u>60 HZ</u>
GLANDS	<u> </u>	GLANDS	<u> </u>
PACKING	<u> </u>	PACKING	<u> </u>
LUBE UNIT	<u> </u>	LUBE UNIT	<u> </u>
TEST VALVES	<u> </u>	TEST VALVES	<u> </u>

2. MOTOR CONTROL CENTER

HOUR METERS PUMP #1	<u>2208.8</u>	<u>13.9</u>	PUMP #2	<u>1789.0</u>	<u>11.3</u>
RUN LIGHTS	<u>OK</u>		ALARM TEST	<u>OK</u>	
MANUAL TEST	<u>OK</u>		AUTO TEST	<u>OK</u>	
GENERATOR TEST	<u>NO</u>	OIL LEVEL	<u> </u>	ANTI-FREEZE	<u> </u>
FUEL	<u> </u>	BATTERY	<u> </u>	HOUR METER	<u> </u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES					
LEAD PUMP ON	<u>5.3</u>	OFF	<u>3.0</u>	LAG ON	<u> </u>
BOTH PUMPS ON	<u> </u>	OFF	<u> </u>	ALARM ON	<u> </u>
				OFF	<u> </u>

3. WET WELL

GREASE BUILD-UP	<u>NO</u>	FLOATS	<u> </u>	DEBRIS	<u>LITTLE</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u> </u>		
ENZYME PUMP	<u> </u>	HYPO PUMP	<u> </u>	NEEDS HYPO	<u> </u>
CL-2 READING	<u> </u>	pH READING	<u> </u>		
FLOW METER READINGS	<u> </u>				

<u> </u>	CURRENT
<u> </u>	PREVIOUS
<u> </u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u> </u>	GAUGE READING	<u> </u>
BLEED SYSTEM	<u> </u>	PURGE SYSTEM	<u> </u>
RELIEF VALVE	<u> </u>	LUBE	<u> </u>
COMP #1 AMPS	<u> </u>	ON	<u> </u>
COMP #2 AMPS	<u> </u>	OFF	<u> </u>
		ON	<u> </u>
		OFF	<u> </u>

5. BUILDING

LIGHTS	<u>OK</u>	SUMP PUMP	<u>NO</u>	HEATER	<u>OFF</u>
DEHUMIDIFIER	<u>NO</u>	NEEDS CLEANING	<u>NO</u>	PAINTING	<u>NO</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70682

DATE 9-22-16 INITIALS D.N.STATION CENTRAL AVE SEWAGE PUMP STATIONLOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>19.00</u> <u>17.90</u>	PUMP #2 - AMPS	<u>19.10</u> <u>18.30</u>
VOLTAGE	<u>60 HZ</u>	VOLTAGE	<u>60 HZ</u>
GLANDS	<u> </u>	GLANDS	<u> </u>
PACKING	<u> </u>	PACKING	<u> </u>
LUBE UNIT	<u> </u>	LUBE UNIT	<u> </u>
TEST VALVES	<u> </u>	TEST VALVES	<u> </u>

2. MOTOR CONTROL CENTER

HOURLY METERS PUMP #1	<u>2223.4</u>	<u>14.6</u>	PUMP #2	<u>1802.1</u>	<u>15.1</u>
RUN LIGHTS	<u>OK</u>		ALARM TEST	<u> </u>	
MANUAL TEST	<u>OK</u>		AUTO TEST	<u>OK</u>	
GENERATOR TEST	<u>NO</u>	OIL LEVEL	<u> </u>	ANTI-FREEZE	<u> </u>
FUEL	<u> </u>	BATTERY	<u> </u>	HOUR METER	<u> </u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES					
LEAD PUMP ON	<u>5.5</u>	OFF	<u>3.5</u>	LAG ON	<u> </u>
BOTH PUMPS ON	<u> </u>	OFF	<u> </u>	ALARM ON	<u> </u>
				OFF	<u> </u>

3. WET WELL

GREASE BUILD-UP	<u>NO</u>	FLOATS	<u> </u>	DEBRIS	<u>LITTLE</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u> </u>		
ENZYME PUMP	<u> </u>	HYPO PUMP	<u> </u>	NEEDS HYPO	<u> </u>
CL-2 READING	<u> </u>	pH READING	<u> </u>		
FLOW METER READINGS					

<u> </u>	CURRENT
<u> </u>	PREVIOUS
<u> </u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u> </u>	GAUGE READING	<u> </u>
BLEED SYSTEM	<u> </u>	PURGE SYSTEM	<u> </u>
RELIEF VALVE	<u> </u>	LUBE	<u> </u>
COMP #1 AMPS	<u> </u>	ON	<u> </u>
COMP #2 AMPS	<u> </u>	OFF	<u> </u>
		ON	<u> </u>
		OFF	<u> </u>

5. BUILDING

LIGHTS	<u>OK</u>	SUMP PUMP	<u>NO</u>	HEATER	<u>OFF</u>
DEHUMIDIFIER	<u>NO</u>	NEEDS CLEANING	<u>NO</u>	PAINTING	<u>NO</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70728

DATE 9-30-16 INITIALS ON
STATION CENTRAL AVE SEWAGE PUMP STATION
LOCATED JOHNSTON

SERVICE CHECK LIST**1. PUMPS CONDITION**

PUMP #1 - AMPS	<u>19.00</u>	PUMP #2 - AMPS	<u>19.10</u>
	<u>17.90</u>		<u>18.00</u>
VOLTAGE	<u>60 HZ</u>	VOLTAGE	<u>60 HZ</u>
GLANDS	<u> </u>	GLANDS	<u> </u>
PACKING	<u> </u>	PACKING	<u> </u>
LUBE UNIT	<u> </u>	LUBE UNIT	<u> </u>
TEST VALVES	<u> </u>	TEST VALVES	<u> </u>

2. MOTOR CONTROL CENTER

HOOR METERS PUMP #1	<u>2237.7</u>	<u>14.4</u>	PUMP #2	<u>1814.8</u>	<u>12.8</u>
RUN LIGHTS	<u>OK</u>		ALARM TEST	<u> </u>	
MANUAL TEST	<u>OK</u>		AUTO TEST	<u>OK</u>	
GENERATOR TEST	<u>NO</u>	OIL LEVEL	<u> </u>	ANTI-FREEZE	<u> </u>
FUEL	<u> </u>	BATTERY	<u> </u>	HOUR METER	<u> </u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES					
LEAD PUMP ON	<u>5.5</u>	OFF	<u>3.8</u>	LAG ON	<u> </u>
BOTH PUMPS ON	<u> </u>	OFF	<u> </u>	ALARM ON	<u> </u>

3. WET WELL

GREASE BUILD-UP	<u>NO</u>	FLOATS	<u> </u>	DEBRIS	<u>LITTLE</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u> </u>		
ENZYME PUMP	<u> </u>	HYPO PUMP	<u> </u>	NEEDS HYPO	<u> </u>
CL-2 READING	<u> </u>	pH READING	<u> </u>		
FLOW METER READINGS					

<u> </u>	CURRENT
<u> </u>	PREVIOUS
<u> </u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u> </u>	GAUGE READING	<u> </u>
BLEED SYSTEM	<u> </u>	PURGE SYSTEM	<u> </u>
RELIEF VALVE	<u> </u>	LUBE	<u> </u>
COMP #1 AMPS	<u> </u>	ON	<u> </u>
COMP #2 AMPS	<u> </u>	OFF	<u> </u>
		ON	<u> </u>
		OFF	<u> </u>

5. BUILDING

LIGHTS	<u>OK</u>	SUMP PUMP	<u>N/A</u>	HEATER	<u>OK</u>
DEHUMIDIFIER	<u>N/A</u>	NEEDS CLEANING	<u>NO</u>	PAINTING	<u>NO</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70609

DATE 9-8-16 INITIALS D.N.
STATION GREEN EARTH AVE.
LOCATED JOHNSTON

SERVICE CHECK LIST**1. PUMPS CONDITION**

PUMP #1 - AMPS	<u>14.0</u>	PUMP #2 - AMPS	<u>13.0</u>
	<u>13.6</u>		<u>12.6</u>
VOLTAGE	<u>488 30</u>	VOLTAGE	<u>488 30</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

HOOR METERS PUMP #1	<u>238.42</u>	PUMP #2	<u>306.17</u>
	<u>.53</u>		<u>.50</u>
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>/</u>
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>/</u>
GENERATOR TEST	<u>NO</u>	OIL LEVEL	<u>/</u>
FUEL	<u>"</u>	ANTI-FREEZE	<u>/</u>
BATTERY	<u>/</u>	HOUR METER	<u>/</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES			
LEAD PUMP ON	<u>5.2</u>	OFF	<u>3.0</u>
LAG ON	<u>5.7</u>	OFF	<u>3.0</u>
BOTH PUMPS ON	<u>5.7</u>	OFF	<u>3.0</u>
ALARM ON	<u>7.5</u>	OFF	<u>1.0</u>

3. WET WELL

GREASE BUILD-UP	<u>NO</u>	FLOATS	<u>/</u>	DEBRIS	<u>LITTLE</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u>/</u>		
ENZYME PUMP	<u>1</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL-2 READING	<u>/</u>	pH READING	<u>/</u>		
FLOW METER READINGS					
				CURRENT	
				PREVIOUS	
				DIFFERENCE	

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>
COMP #2 AMPS	<u>/</u>	OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>OK</u>	SUMP PUMP	<u>N/A</u>	HEATER	<u>OFF</u>
DEHUMIDIFIER	<u>N/A</u>	NEEDS CLEANING	<u>NO</u>	PAINTING	<u>NO</u>

6. SPECIAL NOTES

WORKED 3 WAY VALVE

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70647

DATE 9-15-16 INITIALS D.N.
STATION GREEN EARTH AVE. STATION # 2
LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>14.1</u> <u>13.7</u>	PUMP #2 - AMPS	<u>13.0</u> <u>12.7</u>
VOLTAGE	<u>488</u>	VOLTAGE	<u>488</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

HOURLY METERS PUMP #1	<u>239.41</u>	<u>.49</u>	PUMP #2	<u>306.07</u>	<u>.50</u>
RUN LIGHTS	<u>OK</u>		ALARM TEST	<u>/</u>	
MANUAL TEST	<u>OK</u>		AUTO TEST	<u>/</u>	
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>/</u>	ANTI-FREEZE	<u>/</u>
FUEL	<u>/</u>	BATTERY	<u>/</u>	HOUR METER	<u>/</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES					
LEAD PUMP ON	<u>5.2</u>	OFF	<u>3.0</u>	LAG ON	<u>5.7</u>
BOTH PUMPS ON	<u>5.7</u>	OFF	<u>3.0</u>	ALARM ON	<u>7.5</u>
				OFF	<u>1.0</u>
					<u>LOW</u>

3. WET WELL

GREASE BUILD-UP	<u>NO</u>	FLOATS	<u>/</u>	DEBRIS	<u>LITTLE</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u>/</u>		
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL-2 READING	<u>/</u>	pH READING	<u>/</u>		
FLOW METER READINGS					

<u>/</u>	CURRENT
<u>/</u>	PREVIOUS
<u>/</u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>
COMP #2 AMPS	<u>/</u>	OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>OK</u>	SUMP PUMP	<u>N/A</u>	HEATER	<u>OFF</u>
DEHUMIDIFIER	<u>N/A</u>	NEEDS CLEANING	<u>NO</u>	PAINTING	<u>NO</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70681

DATE 9-28-16 INITIALS D.N.
STATION GREEN EARTH AVE. STATION # 2
LOCATED JOHNSTON

SERVICE CHECK LIST**1. PUMPS CONDITION**

PUMP #1 - AMPS	<u>14.0</u> <u>13.6</u>	PUMP #2 - AMPS	<u>13.0</u> <u>12.8</u>
VOLTAGE	<u>488</u>	VOLTAGE	<u>488</u>
GLANDS	<u>1</u>	GLANDS	<u>1</u>
PACKING	<u>1</u>	PACKING	<u>1</u>
LUBE UNIT	<u>1</u>	LUBE UNIT	<u>1</u>
TEST VALVES	<u>1</u>	TEST VALVES	<u>1</u>

2. MOTOR CONTROL CENTER

HOUR METERS PUMP #1	<u>239.97</u>	<u>.56</u>	PUMP #2	<u>307.29</u>	<u>.62</u>
RUN LIGHTS	<u>OK</u>		ALARM TEST	<u>1</u>	
MANUAL TEST	<u>OK</u>		AUTO TEST	<u>1</u>	
GENERATOR TEST	<u>NO</u>	OIL LEVEL	<u>"</u>	ANTI-FREEZE	<u>"</u>
FUEL	<u>"</u>	BATTERY	<u>"</u>	HOUR METER	<u>"</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES					
LEAD PUMP ON	<u>5.2</u>	OFF	<u>3.5</u>	LAG ON	<u>5.7</u>
BOTH PUMPS ON	<u>5.7</u>	OFF	<u>3.0</u>	ALARM ON	<u>7.5</u>
				OFF	<u>3.0</u>
				OFF	<u>1.0</u>
					<u>LOW</u>

3. WET WELL

GREASE BUILD-UP	<u>NO</u>	FLOATS	<u>1</u>	DEBRIS	<u>LITTLE</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u>1</u>		
ENZYME PUMP	<u>1</u>	HYPO PUMP	<u>1</u>	NEEDS HYPO	<u>1</u>
CL-2 READING	<u>1</u>	pH READING	<u>1</u>		
FLOW METER READINGS					

<u>1</u>	CURRENT
<u>1</u>	PREVIOUS
<u>1</u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u>1</u>	GAUGE READING	<u>1</u>
BLEED SYSTEM	<u>1</u>	PURGE SYSTEM	<u>1</u>
RELIEF VALVE	<u>1</u>	LUBE	<u>1</u>
COMP #1 AMPS	<u>1</u>	ON	<u>1</u>
COMP #2 AMPS	<u>1</u>	OFF	<u>1</u>

5. BUILDING

LIGHTS	<u>OK</u>	SUMP PUMP	<u>N/A</u>	HEATER	<u>OFF</u>
DEHUMIDIFIER	<u>N/A</u>	NEEDS CLEANING	<u>NO</u>	PAINTING	<u>N/A</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70727

DATE 9-30-16 INITIALS D.N.STATION GREEN EARTH AVE.LOCATED JOHNSTON**SERVICE CHECK LIST****1. PUMPS CONDITION**PUMP #1 - AMPS 14.2
13.6PUMP #2 - AMPS 14.2
13.7VOLTAGE 485.3
GLANDS /
PACKING /
LUBE UNIT /
TEST VALVES /VOLTAGE 485.3
GLANDS /
PACKING /
LUBE UNIT /
TEST VALVES /**2. MOTOR CONTROL CENTER**HOUR METERS PUMP #1 240.61 .69PUMP #2 308.07 .78RUN LIGHTS OKALARM TEST /MANUAL TEST OKAUTO TEST /GENERATOR TEST NO OIL LEVEL " ANTI-FREEZE "FUEL " BATTERY " HOUR METER "

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON 5.2 OFF 3.9 LAG ON 5.7 OFF 3.0BOTH PUMPS ON 5.7 OFF 3.0 ALARM ON 7.5 OFF 1.0HIGH LOW**3. WET WELL**GREASE BUILD-UP NO FLOATS / DEBRIS LITTLENEEDS CLEANING NO NEEDS ENZYMES /ENZYME PUMP / HYPO PUMP / NEEDS HYPO /CL-2 READING / pH READING /

FLOW METER READINGS

	CURRENT
	PREVIOUS
	DIFFERENCE

4. COMPRESSORSOIL LEVEL /GAUGE READING /BLEED SYSTEM /PURGE SYSTEM /RELIEF VALVE /LUBE /COMP #1 AMPS /ON / OFF /COMP #2 AMPS /ON / OFF /**5. BUILDING**LIGHTS OK SUMP PUMP N/A HEATER OKDEHUMIDIFIER NO NEEDS CLEANING NO PAINTING NO**6. SPECIAL NOTES**TIGHTENED DRIVE BELT #2 pump.

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

69792

DATE 9-2-16 INITIALS D.N.STATION INDUSTRIAL LAKELOCATED JOHNSTON**SERVICE CHECK LIST****1. PUMPS CONDITION**

PUMP #1 - AMPS	<u>8.7</u>	PUMP #2 - AMPS	<u>8.4</u>
<u>9.2</u>	<u>8.4</u>	<u>8.1</u>	<u>8.8</u>
VOLTAGE	<u>239 30</u>	VOLTAGE	<u>239 30</u>
GLANDS	<u> </u>	GLANDS	<u> </u>
PACKING	<u> </u>	PACKING	<u> </u>
LUBE UNIT	<u> </u>	LUBE UNIT	<u> </u>
TEST VALVES	<u> </u>	TEST VALVES	<u> </u>

2. MOTOR CONTROL CENTER

HOOR METERS PUMP #1	<u>N/A</u>	PUMP #2	<u>N/A</u>
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>OK</u>
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>OK</u>
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u> </u>
FUEL	<u> </u>	ANTI-FREEZE	<u> </u>
BATTERY	<u> </u>	HOUR METER	<u> </u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES			
LEAD PUMP ON	<u> </u>	OFF	<u> </u>
BOTH PUMPS ON	<u> </u>	OFF	<u> </u>
LAG ON	<u> </u>	OFF	<u> </u>
ALARM ON	<u> </u>	OFF	<u> </u>

3. WET WELL

GREASE BUILD-UP	<u>N/A</u>	FLOATS	<u>OK</u>	DEBRIS	<u>LITTLE</u>
NEEDS CLEANING	<u>N/A</u>	NEEDS ENZYMES	<u> </u>		
ENZYME PUMP	<u> </u>	HYPO PUMP	<u> </u>	NEEDS HYPO	<u> </u>
CL-2 READING	<u> </u>	pH READING	<u> </u>		
FLOW METER READINGS					

<u> </u>	CURRENT
<u> </u>	PREVIOUS
<u> </u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u> </u>	GAUGE READING	<u> </u>
BLEED SYSTEM	<u> </u>	PURGE SYSTEM	<u> </u>
RELIEF VALVE	<u> </u>	LUBE	<u> </u>
COMP #1 AMPS	<u> </u>	ON	<u> </u>
COMP #2 AMPS	<u> </u>	OFF	<u> </u>
		ON	<u> </u>
		OFF	<u> </u>

5. BUILDING

LIGHTS	<u> </u>	SUMP PUMP	<u> </u>	HEATER	<u> </u>
DEHUMIDIFIER	<u> </u>	NEEDS CLEANING	<u> </u>	PAINTING	<u> </u>

6. SPECIAL NOTESCUSTOMER SIGNATURE:

FERNCO SERVICES INC.

508-336-3222

70601

DATE 9-8-16 INITIALS D.W.

STATION INDUSTRIAL LANE

LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 AMPS 8.1
9.4 8.4

VOLTAGE 240 30
GLANDS 1
PACKING 1
LUBE UNIT 1
TEST VALVES 1

PUMP #2 - AMPS 8.2
8.7 9.2

VOLTAGE 240 30
GLANDS 1
PACKING 1
LUBE UNIT 1
TEST VALVES 1

2. MOTOR CONTROL CENTER

HOOR METERS PUMP #1 N/A

PUMP #2 N/A

RUN LIGHTS OK

ALARM TEST OK

MANUAL TEST OK

AUTO TEST OK

GENERATOR TEST N/A OIL LEVEL 1 ANTI-FREEZE 1

FUEL 1 BATTERY 1 HOUR METER 1

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON 1 OFF 1 LAG ON 1 OFF 1
BOTH PUMPS ON 1 OFF 1 ALARM ON 1 OFF 1

3. WET WELL

GREASE BUILD-UP NO FLOATS OK DEBRIS LITTLE

NEEDS CLEANING 1 NEEDS ENZYMES 1

ENZYME PUMP 1 HYPO PUMP 1 NEEDS HYPO 1

CL-2 READING 1 pH READING 1

FLOW METER READINGS

1 CURRENT
1 PREVIOUS
1 DIFFERENCE

4. COMPRESSORS

OIL LEVEL 1

GAUGE READING 1

BLEED SYSTEM 1

PURGE SYSTEM 1

RELIEF VALVE 1

LUBE 1

COMP #1 AMPS 1

ON 1 OFF 1

COMP #2 AMPS 1

ON 1 OFF 1

5. BUILDING

LIGHTS 1 SUMP PUMP 1 HEATER 1

DEHUMIDIFIER 1 NEEDS CLEANING 1 PAINTING 1

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70653

DATE 9-16-16 INITIALS D.N.

STATION INDUSTRIAL LN.

LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>8.1</u> <u>7.9</u>	PUMP #2 - AMPS	<u>8.4</u> <u>8.8</u>
VOLTAGE	<u>239 3/4</u>	VOLTAGE	<u>239 3/4</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

HOURL METERS PUMP #1	<u>N/A</u>	PUMP #2	<u>N/A</u>
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>OK</u>
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>OK</u>
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>/</u>
FUEL	<u>/</u>	ANTI-FREEZE	<u>/</u>
BATTERY	<u>/</u>	HOUR METER	<u>/</u>

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON	<u>/</u>	OFF	<u>/</u>	LAG ON	<u>/</u>	OFF	<u>/</u>
BOTH PUMPS ON	<u>/</u>	OFF	<u>/</u>	ALARM ON	<u>/</u>	OFF	<u>/</u>

3. WET WELL

GREASE BUILD-UP	<u>NO</u>	FLOATS	<u>OK</u>	DEBRIS	<u>LITTLE</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u>/</u>		
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL-2 READING	<u>/</u>	pH READING	<u>/</u>		

FLOW METER READINGS

<u>/</u>	CURRENT
<u>/</u>	PREVIOUS
<u>/</u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>
COMP #2 AMPS	<u>/</u>	OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>/</u>	SUMP PUMP	<u>/</u>	HEATER	<u>/</u>
DEHUMIDIFIER	<u>/</u>	NEEDS CLEANING	<u>/</u>	PAINTING	<u>/</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70687

DATE 9-23-16 INITIALS D.N.STATION INDUSTRIAL LANELOCATED JOHNSTON**SERVICE CHECK LIST****1. PUMPS CONDITION**

PUMP #1 - AMPS	<u>8.4</u>	PUMP #2 - AMPS	<u>8.1</u>
<u>9.3</u>	<u>7.8</u>	<u>7.7</u>	<u>8.8</u>
VOLTAGE	<u>239 3/4</u>	VOLTAGE	<u>239 3/4</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

HOOR METERS PUMP #1	<u>N/A</u>	PUMP #2	<u>N/A</u>
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>OK</u>
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>OK</u>
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>"</u>
FUEL	<u>"</u>	BATTERY	<u>"</u>
		ANTI-FREEZE	<u>"</u>
		HOUR METER	<u>"</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES			
LEAD PUMP ON	<u>/</u>	OFF	<u>/</u>
BOTH PUMPS ON	<u>/</u>	OFF	<u>/</u>
		LAG ON	<u>/</u>
		ALARM ON	<u>/</u>
		OFF	<u>/</u>
		OFF	<u>/</u>

3. WET WELL

GREASE BUILD-UP	<u>NO</u>	FLOATS	<u>OK</u>	DEBRIS	<u>LITTLE</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u>/</u>		<u>/</u>
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL-2 READING	<u>/</u>	pH READING	<u>/</u>		<u>/</u>
FLOW METER READINGS					
	<u>/</u>		<u>/</u>	CURRENT	<u>/</u>
	<u>/</u>		<u>/</u>	PREVIOUS	<u>/</u>
	<u>/</u>		<u>/</u>	DIFFERENCE	<u>/</u>

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>
COMP #2 AMPS	<u>/</u>	OFF	<u>/</u>
		ON	<u>/</u>
		OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>/</u>	SUMP PUMP	<u>/</u>	HEATER	<u>/</u>
DEHUMIDIFIER	<u>/</u>	NEEDS CLEANING	<u>/</u>	PAINTING	<u>/</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70733

DATE 9-30-16 INITIALS D.N.STATION INDUSTRIAL LANELOCATED JOHNSTON**SERVICE CHECK LIST****1. PUMPS CONDITION**

PUMP #1 - AMPS	<u>8.1</u>	PUMP #2 - AMPS	<u>8.2</u>
<u>9.1</u>	<u>8.3</u>	<u>8.3</u>	<u>8.3</u>
VOLTAGE	<u>237 3/4</u>	VOLTAGE	<u>237 3/4</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

HOOR METERS PUMP #1	<u>N/A</u>	PUMP #2	<u>N/A</u>
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>OK</u>
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>OK</u>
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>/</u>
FUEL	<u>/</u>	BATTERY	<u>/</u>
		ANTI-FREEZE	<u>/</u>
		HOOR METER	<u>/</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES			
LEAD PUMP ON	<u>/</u>	OFF	<u>/</u>
BOTH PUMPS ON	<u>/</u>	OFF	<u>/</u>
		LAG ON	<u>/</u>
		ALARM ON	<u>/</u>
		OFF	<u>/</u>

3. WET WELL

GREASE BUILD-UP	<u>NO</u>	FLOATS	<u>OK</u>	DEBRIS	<u>LITTLE</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u>/</u>		
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL-2 READING	<u>/</u>	pH READING	<u>/</u>		
FLOW METER READINGS					
				CURRENT	
				PREVIOUS	
				DIFFERENCE	

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>
COMP #2 AMPS	<u>/</u>	OFF	<u>/</u>
		ON	<u>/</u>
		OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>/</u>	SUMP PUMP	<u>/</u>	HEATER	<u>/</u>
DEHUMIDIFIER	<u>/</u>	NEEDS CLEANING	<u>/</u>	PAINTING	<u>/</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

69790

DATE 9-2-16 INITIALS D.N.STATION JENNIFER Dr.LOCATED JOHNSTON**SERVICE CHECK LIST****1. PUMPS CONDITION**

PUMP #1 - AMPS	<u>ISOLATED</u>	PUMP #2 - AMPS	<u>16.7</u> <u>17.0</u>
VOLTAGE	<u>237 ϕ</u>	VOLTAGE	<u>237 ϕ</u>
GLANDS	<u> </u>	GLANDS	<u> </u>
PACKING	<u> </u>	PACKING	<u> </u>
LUBE UNIT	<u> </u>	LUBE UNIT	<u> </u>
TEST VALVES	<u> </u>	TEST VALVES	<u> </u>

2. MOTOR CONTROL CENTER

HOOR METERS PUMP #1	<u>N/A</u>	PUMP #2	<u>N/A</u>
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>OK</u>
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>OK</u>
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>"</u>
FUEL	<u>"</u>	BATTERY	<u>"</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES		ANTI-FREEZE	<u>"</u>
LEAD PUMP ON	<u> </u>	OFF	<u> </u>
BOTH PUMPS ON	<u> </u>	OFF	<u> </u>
LAG ON	<u> </u>	OFF	<u> </u>
ALARM ON	<u> </u>	OFF	<u> </u>

3. WET WELL

GREASE BUILD-UP	<u>SOME</u>	FLOATS	<u>OK</u>	DEBRIS	<u>SOME</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u> </u>		
ENZYME PUMP	<u> </u>	HYPO PUMP	<u> </u>	NEEDS HYPO	<u> </u>
CL-2 READING	<u> </u>	pH READING	<u> </u>		
FLOW METER READINGS					

<u> </u>	CURRENT
<u> </u>	PREVIOUS
<u> </u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u> </u>	GAUGE READING	<u> </u>
BLEED SYSTEM	<u> </u>	PURGE SYSTEM	<u> </u>
RELIEF VALVE	<u> </u>	LUBE	<u> </u>
COMP #1 AMPS	<u> </u>	ON	<u> </u>
COMP #2 AMPS	<u> </u>	OFF	<u> </u>
		ON	<u> </u>
		OFF	<u> </u>

5. BUILDING

LIGHTS	<u>OK</u>	SUMP PUMP	<u> </u>	HEATER	<u> </u>
DEHUMIDIFIER	<u> </u>	NEEDS CLEANING	<u> </u>	PAINTING	<u> </u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70599

DATE 9-8-16 INITIALS D.N.STATION JENNIFER DR.LOCATED JOHNSTON**SERVICE CHECK LIST****1. PUMPS CONDITION**PUMP #1 - AMPS ISOLATEDPUMP #2 - AMPS 17.5
17.3

VOLTAGE

237 ¹⁰

GLANDS

PACKING

LUBE UNIT

TEST VALVES

VOLTAGE

237 ¹⁰

GLANDS

PACKING

LUBE UNIT

TEST VALVES

2. MOTOR CONTROL CENTERHOUR METERS PUMP #1 N/APUMP #2 N/ARUN LIGHTS OKALARM TEST OKMANUAL TEST OKAUTO TEST OKGENERATOR TEST NO

OIL LEVEL

ANTI-FREEZE

FUEL

BATTERY

HOUR METER

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON 1 OFF 1 LAG ON 1 OFF 1BOTH PUMPS ON 1 OFF 1 ALARM ON 1 OFF 1**3. WET WELL**GREASE BUILD-UP SOME FLOATS OK DEBRIS SOMENEEDS CLEANING NO NEEDS ENZYMES 1ENZYME PUMP 1 HYPO PUMP 1 NEEDS HYPO 1CL-2 READING 1 pH READING 1

FLOW METER READINGS

1 CURRENT
1 PREVIOUS
1 DIFFERENCE**4. COMPRESSORS**OIL LEVEL 1GAUGE READING 1BLEED SYSTEM 1PURGE SYSTEM 1RELIEF VALVE 1LUBE 1COMP #1 AMPS 1ON 1 OFF 1COMP #2 AMPS 1ON 1 OFF 1**5. BUILDING**LIGHTS OK SUMP PUMP 1 HEATER 1DEHUMIDIFIER 1 NEEDS CLEANING 1 PAINTING 1**6. SPECIAL NOTES**

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70651

DATE 9-16-16 INITIALS D-N.STATION JENNIFER DR.LOCATED JOHNSTON**SERVICE CHECK LIST****1. PUMPS CONDITION**PUMP #1 - AMPS ISOLATEDPUMP #2 - AMPS 17.5
17.4VOLTAGE 239
GLANDS |
PACKING |
LUBE UNIT |
TEST VALVES |VOLTAGE 239
GLANDS |
PACKING |
LUBE UNIT |
TEST VALVES |**2. MOTOR CONTROL CENTER**HOUR METERS PUMP #1 N/APUMP #2 N/ARUN LIGHTS OKALARM TEST OKMANUAL TEST OKAUTO TEST OKGENERATOR TEST N/A OIL LEVEL | ANTI-FREEZE |FUEL | BATTERY | HOUR METER |

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON | OFF | LAG ON | OFF |BOTH PUMPS ON | OFF | ALARM ON | OFF |**3. WET WELL**GREASE BUILD-UP LITTLE FLOATS CLEANED OK DEBRIS SOMENEEDS CLEANING NO NEEDS ENZYMES |ENZYME PUMP | HYPO PUMP | NEEDS HYPO |CL-2 READING | pH READING |

FLOW METER READINGS

	CURRENT
	PREVIOUS
	DIFFERENCE

4. COMPRESSORSOIL LEVEL |GAUGE READING |BLEED SYSTEM |PURGE SYSTEM |RELIEF VALVE |LUBE |COMP #1 AMPS |ON | OFF |COMP #2 AMPS |ON | OFF |**5. BUILDING**LIGHTS OK SUMP PUMP | HEATER |DEHUMIDIFIER | NEEDS CLEANING | PAINTING |**6. SPECIAL NOTES**

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70685

DATE 9-23-16 INITIALS D.N.

STATION JENNIFER OR.

LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS ISOLATED

PUMP #2 - AMPS 17.5
18.1

VOLTAGE 237 1st
GLANDS |
PACKING |
LUBE UNIT |
TEST VALVES |

VOLTAGE 237 1st
GLANDS |
PACKING |
LUBE UNIT |
TEST VALVES |

2. MOTOR CONTROL CENTER

HOOR METERS PUMP #1 N/A

PUMP #2 N/A

RUN LIGHTS OK

ALARM TEST OK

MANUAL TEST OK

AUTO TEST OK

GENERATOR TEST N/A

OIL LEVEL |

ANTI-FREEZE |

FUEL |

BATTERY |

HOUR METER |

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON | OFF | LAG ON | OFF |

BOTH PUMPS ON | OFF | ALARM ON | OFF |

3. WET WELL

GREASE BUILD-UP SOME FLOATS OK DEBRIS SOME

NEEDS CLEANING NO NEEDS ENZYMES |

ENZYME PUMP | HYPO PUMP | NEEDS HYPO |

CL-2 READING | pH READING |

FLOW METER READINGS

	CURRENT
	PREVIOUS
	DIFFERENCE

4. COMPRESSORS

OIL LEVEL |

GAUGE READING |

BLEED SYSTEM |

PURGE SYSTEM |

RELIEF VALVE |

LUBE |

COMP #1 AMPS |

ON | OFF |

COMP #2 AMPS |

ON | OFF |

5. BUILDING

LIGHTS OK SUMP PUMP N/A HEATER N/A

DEHUMIDIFIER N/A NEEDS CLEANING NO PAINTING NO

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70731

DATE 9-30-16 INITIALS D.N.
STATION JENNIFER DR.
LOCATED JOHNSTON

SERVICE CHECK LIST**1. PUMPS CONDITION**

PUMP #1 - AMPS	<u>ISOLATED</u>	PUMP #2 - AMPS	<u>18.7</u> <u>18.5</u>
VOLTAGE	<u>237 V</u>	VOLTAGE	<u>237 V</u>
GLANDS	<u> </u>	GLANDS	<u> </u>
PACKING	<u> </u>	PACKING	<u> </u>
LUBE UNIT	<u> </u>	LUBE UNIT	<u> </u>
TEST VALVES	<u> </u>	TEST VALVES	<u> </u>

2. MOTOR CONTROL CENTER

HOUR METERS PUMP #1	<u>N/A</u>	PUMP #2	<u>N/A</u>
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>OK</u>
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>OK</u>
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>"</u>
FUEL	<u>"</u>	BATTERY	<u>"</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES		ANTI-FREEZE	<u>"</u>
LEAD PUMP ON	<u> </u>	LAG ON	<u> </u>
BOTH PUMPS ON	<u> </u>	ALARM ON	<u> </u>
OFF	<u> </u>	OFF	<u> </u>

3. WET WELL

GREASE BUILD-UP	<u>Some</u>	FLOATS	<u>OK</u>	DEBRIS	<u>Some</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u> </u>		
ENZYME PUMP	<u> </u>	HYPO PUMP	<u> </u>	NEEDS HYPO	<u> </u>
CL-2 READING	<u> </u>	pH READING	<u> </u>		
FLOW METER READINGS					
<u> </u>			CURRENT		
<u> </u>			PREVIOUS		
<u> </u>			DIFFERENCE		

4. COMPRESSORS

OIL LEVEL	<u> </u>	GAUGE READING	<u> </u>
BLEED SYSTEM	<u> </u>	PURGE SYSTEM	<u> </u>
RELIEF VALVE	<u> </u>	LUBE	<u> </u>
COMP #1 AMPS	<u> </u>	ON	<u> </u>
COMP #2 AMPS	<u> </u>	OFF	<u> </u>
		ON	<u> </u>
		OFF	<u> </u>

5. BUILDING

LIGHTS	<u>OK</u>	SUMP PUMP	<u> </u>	HEATER	<u> </u>
DEHUMIDIFIER	<u> </u>	NEEDS CLEANING	<u> </u>	PAINTING	<u> </u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

69782

DATE 9-2-16 INITIALS D.N.STATION MORGAN MILL RD.LOCATED JOHNSTON

LEAD

SERVICE CHECK LIST LAG**1. PUMPS CONDITION**

PUMP #1 - AMPS	<u>10.2</u>	PUMP #2 - AMPS	<u>6.4</u>
<u>11.8</u>	<u>11.4</u>	<u>6.3</u>	<u>6.5</u>
VOLTAGE	<u>242.3</u>	VOLTAGE	<u>242.3</u>
GLANDS	<u> </u>	GLANDS	<u> </u>
PACKING	<u> </u>	PACKING	<u> </u>
LUBE UNIT	<u> </u>	LUBE UNIT	<u> </u>
TEST VALVES	<u> </u>	TEST VALVES	<u> </u>

2. MOTOR CONTROL CENTER

HOUR METERS PUMP #1	<u>3454.7</u>	PUMP #2	<u>3659.1</u>
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>OK</u>
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>OK</u>
GENERATOR TEST	<u>NP</u>	OIL LEVEL	<u> </u>
FUEL	<u> </u>	ANTI-FREEZE	<u> </u>
BATTERY	<u> </u>	HOUR METER	<u> </u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES			
LEAD PUMP ON	<u> </u>	OFF	<u> </u>
BOTH PUMPS ON	<u> </u>	OFF	<u> </u>
LAG ON	<u> </u>	OFF	<u> </u>
ALARM ON	<u> </u>	OFF	<u> </u>

3. WET WELL

GREASE BUILD-UP	<u>NO</u>	FLOATS	<u>OK</u>	DEBRIS	<u>YES</u>
NEEDS CLEANING	<u>YES</u>	NEEDS ENZYMES	<u> </u>		
ENZYME PUMP	<u> </u>	HYPO PUMP	<u> </u>	NEEDS HYPO	<u> </u>
CL-2 READING	<u> </u>	pH READING	<u> </u>		
FLOW METER READINGS					

<u> </u>	CURRENT
<u> </u>	PREVIOUS
<u> </u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u> </u>	GAUGE READING	<u> </u>
BLEED SYSTEM	<u> </u>	PURGE SYSTEM	<u> </u>
RELIEF VALVE	<u> </u>	LUBE	<u> </u>
COMP #1 AMPS	<u> </u>	ON	<u> </u>
COMP #2 AMPS	<u> </u>	OFF	<u> </u>
		ON	<u> </u>
		OFF	<u> </u>

5. BUILDING

LIGHTS	<u> </u>	SUMP PUMP	<u> </u>	HEATER	<u> </u>
DEHUMIDIFIER	<u> </u>	NEEDS CLEANING	<u> </u>	PAINTING	<u> </u>

6. SPECIAL NOTESCUSTOMER SIGNATURE:

FERNCO SERVICES INC.

508-336-3222

70602

DATE 9-8-16 INITIALS D.N.
STATION MORGAN MILL RD.
LOCATED JOHNSTON

LEDO

SERVICE CHECK LIST LAG**1. PUMPS CONDITION**

PUMP #1 - AMPS	<u>10.4</u>	PUMP #2 - AMPS	<u>6.8</u>
<u>10.8</u>	<u>11.2</u>	<u>6.7</u>	<u>6.2</u>
VOLTAGE	<u>243</u> ³²	VOLTAGE	<u>243</u> ³²
GLANDS	<u>1</u>	GLANDS	<u>1</u>
PACKING	<u>1</u>	PACKING	<u>1</u>
LUBE UNIT	<u>1</u>	LUBE UNIT	<u>1</u>
TEST VALVES	<u>1</u>	TEST VALVES	<u>1</u>

2. MOTOR CONTROL CENTER

HOOR METERS PUMP #1	<u>3455.1</u> ⁴	PUMP #2	<u>3659.1</u> ⁰
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>OK</u>
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>OK</u>
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>1</u>
FUEL	<u>1</u>	BATTERY	<u>1</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES		ANTI-FREEZE	<u>1</u>
LEAD PUMP ON	<u>1</u>	OFF	<u>1</u>
BOTH PUMPS ON	<u>1</u>	OFF	<u>1</u>
LAG ON	<u>1</u>	OFF	<u>1</u>
ALARM ON	<u>1</u>	OFF	<u>1</u>

3. WET WELL

GREASE BUILD-UP	<u>NO</u>	FLOATS	<u>OK</u>	DEBRIS	<u>YES</u>
NEEDS CLEANING	<u>YES</u>	NEEDS ENZYMES	<u>1</u>		
ENZYME PUMP	<u>1</u>	HYPO PUMP	<u>1</u>	NEEDS HYPO	<u>1</u>
CL-2 READING	<u>1</u>	pH READING	<u>1</u>		
FLOW METER READINGS					
	<u>1</u>	CURRENT	<u>1</u>		
	<u>1</u>	PREVIOUS	<u>1</u>		
	<u>1</u>	DIFFERENCE	<u>1</u>		

4. COMPRESSORS

OIL LEVEL	<u>1</u>	GAUGE READING	<u>1</u>
BLEED SYSTEM	<u>1</u>	PURGE SYSTEM	<u>1</u>
RELIEF VALVE	<u>1</u>	LUBE	<u>1</u>
COMP #1 AMPS	<u>1</u>	ON	<u>1</u>
COMP #2 AMPS	<u>1</u>	OFF	<u>1</u>
		ON	<u>1</u>
		OFF	<u>1</u>

5. BUILDING

LIGHTS	<u>1</u>	SUMP PUMP	<u>1</u>	HEATER	<u>1</u>
DEHUMIDIFIER	<u>1</u>	NEEDS CLEANING	<u>1</u>	PAINTING	<u>1</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70660

DATE 9-16-16 INITIALS DHSTATION MORGAN MILL RD.LOCATED JOHNSTON

*

LAG

SERVICE CHECK LIST

LEAD

1. PUMPS CONDITIONPUMP #1 - AMPS HIGH
AMP LAGPUMP #2 - AMPS 6.4
6.3 6.2VOLTAGE 241 3/4
GLANDS _____
PACKING _____
LUBE UNIT _____
TEST VALVES _____VOLTAGE 241 3/4
GLANDS _____
PACKING _____
LUBE UNIT _____
TEST VALVES _____**2. MOTOR CONTROL CENTER**HOUR METERS PUMP #1 3608.9 153.8 PUMP #2 3660.7 1.6RUN LIGHTS OK ALARM TEST OKMANUAL TEST OK AUTO TEST OKGENERATOR TEST NO OIL LEVEL " ANTI-FREEZE "FUEL " BATTERY " HOUR METER _____

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON | OFF | LAG ON | OFF |
BOTH PUMPS ON | OFF | ALARM ON | OFF |**3. WET WELL**GREASE BUILD-UP NO FLOATS OK DEBRIS YESNEEDS CLEANING YES NEEDS ENZYMES |ENZYME PUMP | HYPO PUMP | NEEDS HYPO |CL-2 READING | pH READING |

FLOW METER READINGS

CURRENT
PREVIOUS
DIFFERENCE**4. COMPRESSORS**OIL LEVEL |BLEED SYSTEM |RELIEF VALVE |COMP #1 AMPS |COMP #2 AMPS |GAUGE READING |PURGE SYSTEM |LUBE |ON | OFF |ON | OFF |**5. BUILDING**LIGHTS | SUMP PUMP | HEATER |DEHUMIDIFIER | NEEDS CLEANING | PAINTING |

*

6. SPECIAL NOTESBREAKER #1 PUMP TRIPPED WHEN I ARRIVED. BUMPED #1,
PUMP TO BRING AMPS DOWN. COULDN'T GET AMPS TO
COME DOWN AND STAY. HAVE #3 PUMP AS LEAD NOW.

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70688

DATE 9-23-16 INITIALS D.N.STATION MORGAN MILL RD.LOCATED JOHNSON

LEAD

SERVICE CHECK LIST LAG

1. PUMPS CONDITION

PUMP #1 - AMPS 9.3
9.3PUMP #2 - AMPS 6.2
6.2VOLTAGE 240 38
GLANDS /
PACKING /
LUBE UNIT /
TEST VALVES /VOLTAGE 240 38
GLANDS /
PACKING /
LUBE UNIT /
TEST VALVES /

2. MOTOR CONTROL CENTER

HOUR METERS PUMP #1 3609.0 1.0PUMP #2 3667.2 6.5RUN LIGHTS /ALARM TEST /MANUAL TEST /AUTO TEST /GENERATOR TEST N/A OIL LEVEL / ANTI-FREEZE /FUEL / BATTERY / HOUR METER /

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON / OFF / LAG ON / OFF /BOTH PUMPS ON / OFF / ALARM ON / OFF /

3. WET WELL

GREASE BUILD-UP / FLOATS / DEBRIS /NEEDS CLEANING / NEEDS ENZYMES /ENZYME PUMP / HYPO PUMP / NEEDS HYPO /CL-2 READING / pH READING /

FLOW METER READINGS

/ CURRENT
/ PREVIOUS
/ DIFFERENCE

4. COMPRESSORS

OIL LEVEL /GAUGE READING /BLEED SYSTEM /PURGE SYSTEM /RELIEF VALVE /LUBE /COMP #1 AMPS /ON / OFF /COMP #2 AMPS /ON / OFF /

5. BUILDING

LIGHTS / SUMP PUMP / HEATER /DEHUMIDIFIER / NEEDS CLEANING / PAINTING /

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70734

DATE 9-30-16 INITIALS D.N.

STATION MORGAN MILL RD.

LOCATED JOHNSTON

*

LAG

SERVICE CHECK LIST LEAD

1. PUMPS CONDITION

PUMP #1 - AMPS HIGH
amps

PUMP #2 - AMPS 6.7
6.6

VOLTAGE 244 3rd
GLANDS
PACKING
LUBE UNIT
TEST VALVES

VOLTAGE 244 3rd
GLANDS
PACKING
LUBE UNIT
TEST VALVES

2. MOTOR CONTROL CENTER₂

OUR METERS PUMP #1 3764.2 155.2

PUMP #2 3669.0 1.8

RUN LIGHTS OK

ALARM TEST OK

MANUAL TEST OK

AUTO TEST OK

GENERATOR TEST N/A

OIL LEVEL ✓

ANTI-FREEZE ✓

FUEL ✓

BATTERY ✓

HOUR METER

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON ✓ OFF ✓ LAG ON ✓ OFF ✓

BOTH PUMPS ON ✓ OFF ✓ ALARM ON ✓ OFF ✓

3. WET WELL

GREASE BUILD-UP NO FLOATS OK DEBRIS YES

NEEDS CLEANING YES NEEDS ENZYMES ✓

ENZYME PUMP ✓ HYPO PUMP ✓ NEEDS HYPO ✓

CL-2 READING ✓ pH READING ✓

FLOW METER READINGS

✓ CURRENT
✓ PREVIOUS
✓ DIFFERENCE

4. COMPRESSORS

OIL LEVEL ✓

GAUGE READING ✓

BLEED SYSTEM ✓

PURGE SYSTEM ✓

RELIEF VALVE ✓

LUBE ✓

COMP #1 AMPS ✓

ON ✓ OFF ✓

COMP #2 AMPS ✓

ON ✓ OFF ✓

5. BUILDING

LIGHTS ✓ SUMP PUMP ✓ HEATER ✓

DEHUMIDIFIER ✓ NEEDS CLEANING ✓ PAINTING ✓

* I HAVE BEEN SWITCHING LEAD FROM #1 to #2 PUMP EVERYTHING
6. SPECIAL NOTES WEEK SO DO TO CLEAR PUMPS. BUMPING ISNT BRING
AMPS DOWN ANYMORE. PUMPS NEED CLEARING.

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

69788

DATE 9-2-16 INITIALS D.W.STATION OSTEND ST.LOCATED JOHNSTON**SERVICE CHECK LIST****1. PUMPS CONDITION**

PUMP #1 - AMPS	<u>22.2</u> <u>22.7</u>	PUMP #2 - AMPS	<u>24.4</u> <u>23.6</u>
VOLTAGE	<u>243.1V</u>	VOLTAGE	<u>243.1V</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

HOOR METERS PUMP #1	<u>N/A</u>	PUMP #2	<u>N/A</u>
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>OK 1+2</u>
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>OK</u>
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>/</u>
FUEL	<u>/</u>	BATTERY	<u>/</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES		ANTI-FREEZE	<u>/</u>
LEAD PUMP ON	<u>/</u>	OFF	<u>/</u>
BOTH PUMPS ON	<u>/</u>	OFF	<u>/</u>
LAG ON	<u>/</u>	OFF	<u>/</u>
ALARM ON	<u>/</u>	OFF	<u>/</u>

3. WET WELL

GREASE BUILD-UP	<u>SOME</u>	FLOATS	<u>OK</u>	DEBRIS	<u>SOME</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u>/</u>		
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL-2 READING	<u>/</u>	pH READING	<u>/</u>		
FLOW METER READINGS					
<u>/</u>			CURRENT	<u>/</u>	
<u>/</u>			PREVIOUS	<u>/</u>	
<u>/</u>			DIFFERENCE	<u>/</u>	

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>
COMP #2 AMPS	<u>/</u>	OFF	<u>/</u>
		ON	<u>/</u>
		OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>/</u>	SUMP PUMP	<u>/</u>	HEATER	<u>/</u>
DEHUMIDIFIER	<u>/</u>	NEEDS CLEANING	<u>/</u>	PAINTING	<u>/</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70597

DATE 9-8-16 INITIALS D.N.STATION OSTEND ST.LOCATED JOHNSTON**SERVICE CHECK LIST****1. PUMPS CONDITION**

PUMP #1 - AMPS	<u>22.4</u>	PUMP #2 - AMPS	<u>21.5</u>
	<u>22.3</u>		<u>20.1</u>
VOLTAGE	<u>241 ¹²</u>	VOLTAGE	<u>241 ¹²</u>
GLANDS	<u> </u>	GLANDS	<u> </u>
PACKING	<u> </u>	PACKING	<u> </u>
LUBE UNIT	<u> </u>	LUBE UNIT	<u> </u>
TEST VALVES	<u> </u>	TEST VALVES	<u> </u>

2. MOTOR CONTROL CENTER

HOUR METERS PUMP #1	<u>N/A</u>	PUMP #2	<u>N/A</u>
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>OK 1+2</u>
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>OK</u>
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>"</u>
FUEL	<u>"</u>	BATTERY	<u>"</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES		ANTI-FREEZE	<u>"</u>
LEAD PUMP ON	<u> </u>	LAG ON	<u> </u>
OFF	<u> </u>	OFF	<u> </u>
BOTH PUMPS ON	<u> </u>	ALARM ON	<u> </u>
OFF	<u> </u>	OFF	<u> </u>

3. WET WELL

GREASE BUILD-UP	<u>SOME</u>	FLOATS	<u>OK</u>	DEBRIS	<u>SOME</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u> </u>		
ENZYME PUMP	<u> </u>	HYPO PUMP	<u> </u>	NEEDS HYPO	<u> </u>
CL-2 READING	<u> </u>	pH READING	<u> </u>		
FLOW METER READINGS					

<u> </u>	CURRENT
<u> </u>	PREVIOUS
<u> </u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u> </u>	GAUGE READING	<u> </u>
BLEED SYSTEM	<u> </u>	PURGE SYSTEM	<u> </u>
RELIEF VALVE	<u> </u>	LUBE	<u> </u>
COMP #1 AMPS	<u> </u>	ON	<u> </u>
COMP #2 AMPS	<u> </u>	OFF	<u> </u>
		ON	<u> </u>
		OFF	<u> </u>

5. BUILDING

LIGHTS	<u> </u>	SUMP PUMP	<u> </u>	HEATER	<u> </u>
DEHUMIDIFIER	<u> </u>	NEEDS CLEANING	<u> </u>	PAINTING	<u> </u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70649

DATE 9-16-16 INITIALS D.N.STATION OSTEND ST.LOCATED JOHNSTON**SERVICE CHECK LIST****1. PUMPS CONDITION**

PUMP #1 - AMPS	<u>22.4</u> <u>21.1</u>	PUMP #2 - AMPS	<u>24.6</u> <u>24.4</u>
VOLTAGE	<u>242 V</u>	VOLTAGE	<u>242 V</u>
GLANDS	<u> </u>	GLANDS	<u> </u>
PACKING	<u> </u>	PACKING	<u> </u>
LUBE UNIT	<u> </u>	LUBE UNIT	<u> </u>
TEST VALVES	<u> </u>	TEST VALVES	<u> </u>

2. MOTOR CONTROL CENTER

HOUR METERS PUMP #1	<u>N/A</u>	PUMP #2	<u>N/A</u>
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>OK</u> 1+2
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>OK</u>
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>"</u>
FUEL	<u>"</u>	ANTI-FREEZE	<u>"</u>
BATTERY	<u>"</u>	HOUR METER	<u>"</u>

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON	<u>1</u>	OFF	<u> </u>	LAG ON	<u> </u>	OFF	<u> </u>
BOTH PUMPS ON	<u> </u>	OFF	<u> </u>	ALARM ON	<u> </u>	OFF	<u> </u>

3. WET WELL

GREASE BUILD-UP	<u>SOME</u>	FLOATS	<u>CLEANED OK</u>	DEBRIS	<u>SOME</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u> </u>		
ENZYME PUMP	<u> </u>	HYPO PUMP	<u> </u>	NEEDS HYPO	<u> </u>
CL-2 READING	<u> </u>	pH READING	<u> </u>		

FLOW METER READINGS

<u> </u>	CURRENT
<u> </u>	PREVIOUS
<u> </u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u> </u>	GAUGE READING	<u> </u>
BLEED SYSTEM	<u> </u>	PURGE SYSTEM	<u> </u>
RELIEF VALVE	<u> </u>	LUBE	<u> </u>
COMP #1 AMPS	<u> </u>	ON	<u> </u> OFF <u> </u>
COMP #2 AMPS	<u> </u>	ON	<u> </u> OFF <u> </u>

5. BUILDING

LIGHTS	<u> </u>	SUMP PUMP	<u> </u>	HEATER	<u> </u>
DEHUMIDIFIER	<u> </u>	NEEDS CLEANING	<u> </u>	PAINTING	<u> </u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70683

DATE 9-23-16 INITIALS D.N.STATION OSTEND ST.LOCATED JOHNSON**SERVICE CHECK LIST****1. PUMPS CONDITION**

PUMP #1 - AMPS	<u>23.4</u> <u>23.3</u>	PUMP #2 - AMPS	<u>22.5</u> <u>21.7</u>
VOLTAGE	<u>242 V</u>	VOLTAGE	<u>242 V</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

hour meters	PUMP #1	<u>N/A</u>	PUMP #2	<u>N/A</u>	
RUN LIGHTS	<u>OK</u>		ALARM TEST	<u>OK</u>	
MANUAL TEST	<u>OK</u>		AUTO TEST	<u>OK</u>	
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>"</u>	ANTI-FREEZE	<u>"</u>
FUEL	<u>"</u>	BATTERY	<u>"</u>	HOUR METER	<u>"</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES					
LEAD PUMP ON	<u>/</u>	OFF	<u>/</u>	LAG ON	<u>/</u>
BOTH PUMPS ON	<u>/</u>	OFF	<u>/</u>	ALARM ON	<u>/</u>
				OFF	<u>/</u>

3. WET WELL

GREASE BUILD-UP	<u>SOME</u>	FLOATS	<u>OK</u>	DEBRIS	<u>SOME</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u>/</u>		
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL-2 READING	<u>/</u>	pH READING	<u>/</u>		
FLOW METER READINGS					
				CURRENT	
				PREVIOUS	
				DIFFERENCE	

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>
COMP #2 AMPS	<u>/</u>	OFF	<u>/</u>
		ON	<u>/</u>
		OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>/</u>	SUMP PUMP	<u>/</u>	HEATER	<u>/</u>
DEHUMIDIFIER	<u>/</u>	NEEDS CLEANING	<u>/</u>	PAINTING	<u>/</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70729

DATE 9-30-16 INITIALS O.V.STATION OSTEND ST.LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>25.5</u> <u>24.6</u>	PUMP #2 - AMPS	<u>22.7</u> <u>21.5</u>
VOLTAGE	<u>243 1/2</u>	VOLTAGE	<u>243 1/2</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

HOUR METERS PUMP #1	<u>N/A</u>	PUMP #2	<u>N/A</u>
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>OK 1 + 2</u>
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>OK</u>
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>/</u>
FUEL	<u>/</u>	ANTI-FREEZE	<u>/</u>
BATTERY	<u>/</u>	HOUR METER	<u>/</u>

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON	<u>/</u>	OFF	<u>/</u>	LAG ON	<u>/</u>	OFF	<u>/</u>
BOTH PUMPS ON	<u>/</u>	OFF	<u>/</u>	ALARM ON	<u>/</u>	OFF	<u>/</u>

3. WET WELL

GREASE BUILD-UP	<u>SOME</u>	FLOATS	<u>CLEANED OK</u>	DEBRIS	<u>SOME</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u>/</u>		<u>/</u>
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL-2 READING	<u>/</u>	pH READING	<u>/</u>		<u>/</u>

FLOW METER READINGS

<u>/</u>	CURRENT
<u>/</u>	PREVIOUS
<u>/</u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>
COMP #2 AMPS	<u>/</u>	OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>/</u>	SUMP PUMP	<u>/</u>	HEATER	<u>/</u>
DEHUMIDIFIER	<u>/</u>	NEEDS CLEANING	<u>/</u>	PAINTING	<u>/</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70608

DATE 9-8-16 INITIALS D.N.STATION RECYCLE RD.LOCATED JOHNSTON**SERVICE CHECK LIST****1. PUMPS CONDITION**

PUMP #1 - AMPS	<u>58²⁰</u> <u>57²⁰</u>	PUMP #2 - AMPS	<u>58¹⁰</u> <u>58¹⁰</u>
VOLTAGE	<u>60 HZ</u>	VOLTAGE	<u>60 HZ</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

hour meters	PUMP #1 <u>60.9</u>	PUMP #2 <u>67.5</u>
RUN LIGHTS	<u>OK</u>	ALARM TEST <u>OK</u>
MANUAL TEST	<u>OK</u>	AUTO TEST <u>OK</u>
GENERATOR TEST	<u>NO</u>	OIL LEVEL <u>"</u>
FUEL	<u>"</u>	BATTERY <u>"</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES		ANTI-FREEZE <u>"</u>
LEAD PUMP ON	<u>5.5</u>	OFF <u>1.5</u>
LAG ON	<u>5.5</u>	OFF <u>2.0</u>
BOTH PUMPS ON	<u>5.5</u>	OFF <u>2.0</u>
ALARM ON	<u>8.0</u>	OFF <u>7.8</u>
<u>LOW PUMP .8</u>		

3. WET WELL

GREASE BUILD-UP	<u>NO</u>	FLOATS	<u>/</u>	DEBRIS	<u>LITTLE</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u>/</u>		
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL-2 READING	<u>/</u>	pH READING	<u>/</u>		
FLOW METER READINGS					

<u>/</u>	CURRENT
<u>/</u>	PREVIOUS
<u>/</u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>
COMP #2 AMPS	<u>/</u>	OFF	<u>/</u>
		ON	<u>/</u>
		OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>OK</u>	SUMP PUMP	<u>NO</u>	HEATER	<u>OFF</u>
DEHUMIDIFIER	<u>N/A</u>	NEEDS CLEANING	<u>NO</u>	PAINTING	<u>NO</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70645

DATE 9-15-16 INITIALS D.N.
STATION RECYCLE RD. STATION # 1
LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>62.30</u> <u>61.30</u>	PUMP #2 - AMPS	<u>59.30</u> <u>58.30</u>
VOLTAGE	<u>60 HZ</u>	VOLTAGE	<u>60 HZ</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

HOUR METERS PUMP #1	<u>61.1</u>	PUMP #2	<u>68.0</u>
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>/</u>
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>/</u>
GENERATOR TEST	<u>NO</u>	OIL LEVEL	<u>"</u>
FUEL	<u>"</u>	ANTI-FREEZE	<u>:</u>
BATTERY	<u>"</u>	HOUR METER	<u>"</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES			
LEAD PUMP ON	<u>5.5</u>	OFF	<u>1.5</u>
BOTH PUMPS ON	<u>5.5</u>	OFF	<u>2.0</u>
LAG ON	<u>5.5</u>	OFF	<u>2.0</u>
ALARM ON	<u>8.0</u>	OFF	<u>7.8</u>
<u>LOW ALARM 1.8</u>			

3. WET WELL

GREASE BUILD-UP	<u>NO</u>	FLOATS	<u>/</u>	DEBRIS	<u>LITTLE</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u>/</u>		
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL ₂ READING	<u>/</u>	pH READING	<u>/</u>		
FLOW METER READINGS					

<u>/</u>	CURRENT
<u>/</u>	PREVIOUS
<u>/</u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>
COMP #2 AMPS	<u>/</u>	OFF	<u>/</u>
		ON	<u>/</u>
		OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>OK</u>	SUMP PUMP	<u>NO</u>	HEATER	<u>OFF</u>
DEHUMIDIFIER	<u>NO</u>	NEEDS CLEANING	<u>NO</u>	PAINTING	<u>NO</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70680

DATE 9-23-16 INITIALS OJ
STATION RECYCLE RO STATION # 1
LOCATED JOHNSTON

SERVICE CHECK LIST**1. PUMPS CONDITION**

PUMP #1 - AMPS	<u>61.20</u> <u>60.20</u>	PUMP #2 - AMPS	<u>58.20</u> <u>57.20</u>
VOLTAGE	<u>60 HZ</u>	VOLTAGE	<u>60 HZ</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

hour meters	PUMP #1	<u>61.4</u>	<u>.3</u>	PUMP #2	<u>68.6</u>	<u>.6</u>	
RUN LIGHTS	<u>OK</u>			ALARM TEST	<u>/</u>		
MANUAL TEST	<u>OK</u>			AUTO TEST	<u>/</u>		
GENERATOR TEST	<u>NO</u>	OIL LEVEL	<u>"</u>	ANTI-FREEZE	<u>"</u>		
FUEL	<u>"</u>	BATTERY	<u>"</u>	HOUR METER	<u>"</u>		
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES							
LEAD PUMP ON	<u>5.5</u>	OFF	<u>1.5</u>	LAG ON	<u>5.5</u>	OFF	<u>2.5</u>
BOTH PUMPS ON	<u>5.5</u>	OFF	<u>2.5</u>	ALARM ON	<u>8.5</u>	OFF	<u>7.5</u>
				LOW	<u>.8</u>		

3. WET WELL

GREASE BUILD-UP	<u>NO</u>	FLOATS	<u>/</u>	DEBRIS	<u>LITTLE</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u>/</u>		
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL-2 READING	<u>/</u>	pH READING	<u>/</u>		
FLOW METER READINGS					
	<u>/</u>		<u>/</u>	CURRENT	<u>/</u>
	<u>/</u>		<u>/</u>	PREVIOUS	<u>/</u>
	<u>/</u>		<u>/</u>	DIFFERENCE	<u>/</u>

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u> OFF <u>/</u>
COMP #2 AMPS	<u>/</u>	ON	<u>/</u> OFF <u>/</u>

5. BUILDING

LIGHTS	<u>OK</u>	SUMP PUMP	<u>N/A</u>	HEATER	<u>OFF</u>
DEHUMIDIFIER	<u>N/A</u>	NEEDS CLEANING	<u>NO</u>	PAINTING	<u>NO</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70726

DATE 9-30-16 INITIALS D.N.
STATION RECYCLE RD STATION # 1
LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>57.50</u> <u>56.50</u>	PUMP #2 - AMPS	<u>54.40</u> <u>53.40</u>
VOLTAGE	<u>60 HZ</u>	VOLTAGE	<u>60 HZ</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

OUR METERS PUMP #1	<u>61.8</u>	PUMP #2	<u>69.2</u>
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>/</u>
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>/</u>
GENERATOR TEST	<u>NO</u>	OIL LEVEL	<u>"</u>
FUEL	<u>"</u>	BATTERY	<u>"</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES		ANTI-FREEZE	<u>"</u>
LEAD PUMP ON	<u>5.0</u>	LAG ON	<u>5.5</u>
OFF	<u>1.5</u>	OFF	<u>2.0</u>
BOTH PUMPS ON	<u>5.5</u>	ALARM ON	<u>8.0</u>
OFF	<u>2.0</u>	OFF	<u>7.5</u>
<u>LOW .8</u>			

3. WET WELL

GREASE BUILD-UP	<u>NO</u>	FLOATS	<u>/</u>	DEBRIS	<u>LITTLE</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u>/</u>		
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL-2 READING	<u>/</u>	pH READING	<u>/</u>		
FLOW METER READINGS					
<u>/</u>					
<u>/</u>					
<u>/</u>					
CURRENT					
PREVIOUS					
DIFFERENCE					

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>
COMP #2 AMPS	<u>/</u>	OFF	<u>/</u>
		ON	<u>/</u>
		OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>OK</u>	SUMP PUMP	<u>N/A</u>	HEATER	<u>OFF</u>
DEHUMIDIFIER	<u>N/A</u>	NEEDS CLEANING	<u>NO</u>	PAINTING	<u>NO</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

69787

DATE 9-2-16 INITIALS D.N.

STATION RIVER DR.

LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>16.1</u>	PUMP #2 - AMPS	<u>14.3</u>
	<u>15.8</u>		<u>13.8</u>
VOLTAGE	<u>245.1</u>	VOLTAGE	<u>245.1</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

HOUR METERS PUMP #1	<u>20161.7</u>	<u>13.4</u>	PUMP #2	<u>28635.3</u>	<u>14.0</u>
RUN LIGHTS	<u>OK</u>		ALARM TEST	<u>OK</u>	
MANUAL TEST	<u>OK</u>		AUTO TEST	<u>OK</u>	
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>/</u>	ANTI-FREEZE	<u>/</u>
FUEL	<u>/</u>	BATTERY	<u>/</u>	HOUR METER	<u>/</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES					
LEAD PUMP ON	<u>/</u>	OFF	<u>/</u>	LAG ON	<u>/</u>
BOTH PUMPS ON	<u>/</u>	OFF	<u>/</u>	ALARM ON	<u>/</u>

3. WET WELL

GREASE BUILD-UP	<u>Some</u>	FLOATS	<u>OK</u>	DEBRIS	<u>Some</u>
NEEDS CLEANING	<u>N/A</u>	NEEDS ENZYMES	<u>/</u>		
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL-2 READING	<u>/</u>	pH READING	<u>/</u>		
FLOW METER READINGS					

<u>/</u>	CURRENT
<u>/</u>	PREVIOUS
<u>/</u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>
COMP #2 AMPS	<u>/</u>	OFF	<u>/</u>
		ON	<u>/</u>
		OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>/</u>	SUMP PUMP	<u>/</u>	HEATER	<u>/</u>
DEHUMIDIFIER	<u>/</u>	NEEDS CLEANING	<u>/</u>	PAINTING	<u>/</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

DATE 9-8-16 INITIALS ON

STATION RIVER DR.

LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>13.6</u> <u>13.3</u>	PUMP #2 - AMPS	<u>15.4</u> <u>14.6</u>
VOLTAGE	<u>245</u> ¹⁰	VOLTAGE	<u>245</u> ¹⁰
GLANDS	<u>1</u>	GLANDS	<u>1</u>
PACKING	<u>1</u>	PACKING	<u>1</u>
LUBE UNIT	<u>1</u>	LUBE UNIT	<u>1</u>
TEST VALVES	<u>1</u>	TEST VALVES	<u>1</u>

2. MOTOR CONTROL CENTER

HOUR METERS - PUMP #1	<u>20161.7</u> ³	PUMP #2	<u>28648.3</u> ^{13.0}
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>OK</u>
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>OK</u>
GENERATOR TEST	<u>11/2</u>	OIL LEVEL	<u>1</u>
FUEL	<u>1</u>	BATTERY	<u>1</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES		ANTI-FREEZE	<u>1</u>
LEAD PUMP ON	<u>1</u>	LAG ON	<u>1</u>
BOTH PUMPS ON	<u>1</u>	ALARM ON	<u>1</u>

3. WET WELL

GREASE BUILD-UP	<u>Some</u>	FLOATS	<u>OK</u>	DEBRIS	<u>Some</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u>1</u>	NEEDS HYPO	<u>1</u>
ENZYME PUMP	<u>1</u>	HYPO PUMP	<u>1</u>	PH READING	<u>1</u>
CL-2 READING	<u>1</u>	PH READING	<u>1</u>		
FLOW METER READINGS					
				CURRENT	
				PREVIOUS	
				DIFFERENCE	

4. COMPRESSORS

OIL LEVEL	<u>1</u>	GAUGE READING	<u>1</u>
BLEED SYSTEM	<u>1</u>	PURGE SYSTEM	<u>1</u>
RELIEF VALVE	<u>1</u>	LUBE	<u>1</u>
COMP #1 AMPS	<u>1</u>	ON	<u>1</u>
COMP #2 AMPS	<u>1</u>	OFF	<u>1</u>

5. BUILDING

LIGHTS	<u>1</u>	SUMP PUMP	<u>1</u>	HEATER	<u>1</u>
DEHUMIDIFIER	<u>1</u>	NEEDS CLEANING	<u>1</u>	PAINTING	<u>1</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70665

DATE 9-16-16 INITIALS D.N.
STATION RIVER DR.
LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS

13.213.1

PUMP #2 - AMPS

15.315.1

VOLTAGE

242 V

GLANDS

PACKING

LUBE UNIT

TEST VALVES

VOLTAGE

242 V

GLANDS

PACKING

LUBE UNIT

TEST VALVES

2. MOTOR CONTROL CENTER

HOUR METERS PUMP #1

20176.414.7

PUMP #2

28663.7115.4

RUN LIGHTS

OK

ALARM TEST

OK

MANUAL TEST

OK

AUTO TEST

OK

GENERATOR TEST

N/A

OIL LEVEL

✓

ANTI-FREEZE

"

FUEL

"

BATTERY

"

HOUR METER

"

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON

✓

OFF

LAG ON

OFF

BOTH PUMPS ON

✓

OFF

ALARM ON

OFF

3. WET WELL

GREASE BUILD-UP

LITTLE

FLOATS

CLEANED OK

DEBRIS

SOME

NEEDS CLEANING

NO

NEEDS ENZYMES

ENZYME PUMP

HYPO PUMP

NEEDS HYPO

CL-2 READING

pH READING

FLOW METER READINGS

CURRENT

PREVIOUS

DIFFERENCE

4. COMPRESSORS

OIL LEVEL

BLEED SYSTEM

RELIEF VALVE

COMP #1 AMPS

COMP #2 AMPS

GAUGE READING

PURGE SYSTEM

LUBE

ON

OFF

ON

OFF

5. BUILDING

LIGHTS

SUMP PUMP

HEATER

DEHUMIDIFIER

NEEDS CLEANING

PAINTING

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

DATE 9-23-16 INITIALS D.V.

 STATION RIVER DR.

 LOCATED JOHNSTON
SERVICE CHECK LIST
1. PUMPS CONDITION

 PUMP #1 - AMPS 16.1
15.4

 PUMP #2 - AMPS 13.6
13.4

 VOLTAGE 240 17
 GLANDS /
 PACKING /
 LUBE UNIT /
 TEST VALVES /

 VOLTAGE 240 17
 GLANDS /
 PACKING /
 LUBE UNIT /
 TEST VALVES /
2. MOTOR CONTROL CENTER

 HOUR METERS PUMP #1 20139.9 13.5 PUMP #2 28677.4 13.7
 RUN LIGHTS OK ALARM TEST OK
 MANUAL TEST OK AUTO TEST OK

 GENERATOR TEST N/A OIL LEVEL " ANTI-FREEZE "
 FUEL " BATTERY " HOUR METER "

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

 LEAD PUMP ON / OFF / LAG ON / OFF /
 BOTH PUMPS ON / OFF / ALARM ON / OFF /
3. WET WELL

 GREASE BUILD-UP SOME FLOATS OK DEBRIS SOME
 NEEDS CLEANING NO NEEDS ENZYMES /
 ENZYME PUMP / HYPO PUMP / NEEDS HYPO /
 CL-2 READING / pH READING /
 FLOW METER READINGS

	CURRENT
	PREVIOUS
	DIFFERENCE

4. COMPRESSORS

 OIL LEVEL /
 BLEED SYSTEM /
 RELIEF VALVE /
 COMP #1 AMPS /
 COMP #2 AMPS /

 GAUGE READING /
 PURGE SYSTEM /
 LUBE /
 ON / OFF /
 ON / OFF /
5. BUILDING

 LIGHTS / SUMP PUMP / HEATER /
 DEHUMIDIFIER / NEEDS CLEANING / PAINTING /
6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70739

DATE 9-30-16 INITIALS D.N.

STATION RIVER DR.

LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>12.7</u> <u>12.4</u>	PUMP #2 - AMPS	<u>15.0</u> <u>15.0</u>
VOLTAGE	<u>244 12</u>	VOLTAGE	<u>244 12</u>
GLANDS	<u> </u>	GLANDS	<u> </u>
PACKING	<u> </u>	PACKING	<u> </u>
LUBE UNIT	<u> </u>	LUBE UNIT	<u> </u>
TEST VALVES	<u> </u>	TEST VALVES	<u> </u>

2. MOTOR CONTROL CENTER

hour meters	PUMP #1	<u>20203.5</u>	<u>13.6</u>	PUMP #2	<u>28691.3</u>	<u>13.9</u>	
RUN LIGHTS	<u>OK</u>			ALARM TEST	<u>OK</u>		
MANUAL TEST	<u>OK</u>			AUTO TEST	<u>OK</u>		
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>"</u>	ANTI-FREEZE	<u>"</u>		
FUEL	<u>"</u>	BATTERY	<u>"</u>	HOUR METER	<u>"</u>		
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES							
LEAD PUMP ON	<u> </u>	OFF	<u> </u>	LAG ON	<u> </u>	OFF	<u> </u>
BOTH PUMPS ON	<u> </u>	OFF	<u> </u>	ALARM ON	<u> </u>	OFF	<u> </u>

3. WET WELL

GREASE BUILD-UP	<u>SOME</u>	FLOATS	<u>OK</u>	DEBRIS	<u>SOME</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u> </u>		<u> </u>
ENZYME PUMP	<u> </u>	HYPO PUMP	<u> </u>	NEEDS HYPO	<u> </u>
CL-2 READING	<u> </u>	pH READING	<u> </u>		<u> </u>
FLOW METER READINGS					

<u> </u>	CURRENT
<u> </u>	PREVIOUS
<u> </u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u> </u>	GAUGE READING	<u> </u>		
BLEED SYSTEM	<u> </u>	PURGE SYSTEM	<u> </u>		
RELIEF VALVE	<u> </u>	LUBE	<u> </u>		
COMP #1 AMPS	<u> </u>	ON	<u> </u>	OFF	<u> </u>
COMP #2 AMPS	<u> </u>	ON	<u> </u>	OFF	<u> </u>

5. BUILDING

LIGHTS	<u> </u>	SUMP PUMP	<u> </u>	HEATER	<u> </u>
DEHUMIDIFIER	<u> </u>	NEEDS CLEANING	<u> </u>	PAINTING	<u> </u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

69783

DATE 9-2-16 INITIALS D.N.
STATION ROTARY DR.
LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>26.3</u>	PUMP #2 - AMPS	<u>6.7</u>
<u>1.8</u>	<u>25.0</u>	<u>7.2</u>	<u>7.0</u>
VOLTAGE	<u>243.19</u>	VOLTAGE	<u>243.30</u>
GLANDS	<u> </u>	GLANDS	<u> </u>
PACKING	<u> </u>	PACKING	<u> </u>
LUBE UNIT	<u> </u>	LUBE UNIT	<u> </u>
TEST VALVES	<u> </u>	TEST VALVES	<u> </u>

2. MOTOR CONTROL CENTER

COUNTER OUT

hour METERS	PUMP #1	<u>755.8</u>	PUMP #2	<u>3112.8</u>	<u>4.6</u>
RUN LIGHTS	<u>OK</u>		ALARM TEST	<u>OK</u>	
MANUAL TEST	<u>OK</u>		AUTO TEST	<u>OK</u>	
GENERATOR TEST	<u>YES</u>	OIL LEVEL	<u>OK</u>	ANTI-FREEZE	<u>OK</u>
FUEL	<u>11-605</u>	BATTERY	<u>OK</u>	HOUR METER	<u>113.83 - 113.92</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES					
LEAD PUMP ON	<u> </u>	OFF	<u> </u>	LAG ON	<u> </u>
BOTH PUMPS ON	<u> </u>	OFF	<u> </u>	ALARM ON	<u> </u>
				OFF	<u> </u>

3. WET WELL

GREASE BUILD-UP LITTLE FLOATS OK DEBRIS SOME
NEEDS CLEANING NO NEEDS ENZYMES |
ENZYME PUMP | HYPO PUMP | NEEDS HYPO |
CL-2 READING | pH READING |
FLOW METER READINGS

<u> </u>	CURRENT
<u> </u>	PREVIOUS
<u> </u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u> </u>	GAUGE READING	<u> </u>
BLEED SYSTEM	<u> </u>	PURGE SYSTEM	<u> </u>
RELIEF VALVE	<u> </u>	LUBE	<u> </u>
COMP #1 AMPS	<u> </u>	ON	<u> </u>
COMP #2 AMPS	<u> </u>	OFF	<u> </u>
		ON	<u> </u>
		OFF	<u> </u>

5. BUILDING

LIGHTS	<u>OK</u>	SUMP PUMP	<u> </u>	HEATER	<u> </u>
DEHUMIDIFIER	<u> </u>	NEEDS CLEANING	<u> </u>	PAINTING	<u> </u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70603

DATE 9-8-16 INITIALS D.N.STATION ROTARY DR.LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>28.4</u>	PUMP #2 - AMPS	<u>7.2</u>
<u>.8</u>	<u>27.8</u>	<u>6.8</u>	<u>7.0</u>
VOLTAGE	<u>243 17</u>	VOLTAGE	<u>243 32</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

hour METERS PUMP #1	<u>255.8</u>	COUNTER OUT	PUMP #2	<u>3116.9</u>	<u>4.1</u>
RUN LIGHTS	<u>OK</u>		ALARM TEST	<u>OK</u>	
MANUAL TEST	<u>OK</u>		AUTO TEST	<u>OK</u>	
GENERATOR TEST	<u>YES</u>	OIL LEVEL	<u>OK</u>	ANTI-FREEZE	<u>OK</u>
FUEL	<u>N-GAS</u>	BATTERY	<u>OK</u>	HOUR METER	<u>133.91-134.98</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES					
LEAD PUMP ON	<u>/</u>	OFF	<u>/</u>	LAG ON	<u>/</u>
BOTH PUMPS ON	<u>/</u>	OFF	<u>/</u>	ALARM ON	<u>/</u>
				OFF	<u>/</u>

3. WET WELL

GREASE BUILD-UP	<u>SOME</u>	FLOATS	<u>OK</u>	DEBRIS	<u>SOME</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u>/</u>		<u>/</u>
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL-2 READING	<u>/</u>	pH READING	<u>/</u>		<u>/</u>
FLOW METER READINGS					

<u>/</u>	CURRENT
<u>/</u>	PREVIOUS
<u>/</u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>
COMP #2 AMPS	<u>/</u>	OFF	<u>/</u>
		ON	<u>/</u>
		OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>OK</u>	SUMP PUMP	<u>N/A</u>	HEATER	<u>N/A</u>
DEHUMIDIFIER	<u>N/A</u>	NEEDS CLEANING	<u>N/A</u>	PAINTING	<u>N/A</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70661

DATE 9-16-16 INITIALS D.N.STATION ROTARY DR.LOCATED JOHNSTON**SERVICE CHECK LIST****1. PUMPS CONDITION**

PUMP #1 - AMPS	<u>31.5</u>	PUMP #2 - AMPS	<u>7.2</u>
<u>1.4</u>	<u>30.6</u>	<u>7.3</u>	<u>6.8</u>
VOLTAGE	<u>244 1Ø</u>	VOLTAGE	<u>244 3Ø</u>
GLANDS	<u> </u>	GLANDS	<u> </u>
PACKING	<u> </u>	PACKING	<u> </u>
LUBE UNIT	<u> </u>	LUBE UNIT	<u> </u>
TEST VALVES	<u> </u>	TEST VALVES	<u> </u>

2. MOTOR CONTROL CENTER

COUNTER OUT

hour METERS PUMP #1	<u>755.8</u>	PUMP #2	<u>3122.8</u>	<u>5.9</u>	
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>OK</u>		
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>OK</u>		
GENERATOR TEST	<u>YES</u>	OIL LEVEL	<u>OK</u>	ANTI-FREEZE	<u>OK</u>
FUEL	<u>N-GAS</u>	BATTERY	<u>OK</u>	HOUR METER	<u>183.98 - 184.</u>

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON	<u> </u>	OFF	<u> </u>	LAG ON	<u> </u>	OFF	<u> </u>
BOTH PUMPS ON	<u> </u>	OFF	<u> </u>	ALARM ON	<u> </u>	OFF	<u> </u>

3. WET WELL

GREASE BUILD-UP	<u>LITTLE</u>	FLOATS	<u>OK</u>	DEBRIS	<u>SOME</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u> </u>		
ENZYME PUMP	<u> </u>	HYPO PUMP	<u> </u>	NEEDS HYPO	<u> </u>
CL-2 READING	<u> </u>	pH READING	<u> </u>		

FLOW METER READINGS

<u> </u>	CURRENT
<u> </u>	PREVIOUS
<u> </u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u> </u>	GAUGE READING	<u> </u>		
BLEED SYSTEM	<u> </u>	PURGE SYSTEM	<u> </u>		
RELIEF VALVE	<u> </u>	LUBE	<u> </u>		
COMP #1 AMPS	<u> </u>	ON	<u> </u>	OFF	<u> </u>
COMP #2 AMPS	<u> </u>	ON	<u> </u>	OFF	<u> </u>

5. BUILDING

LIGHTS	<u>OK</u>	SUMP PUMP	<u>N/A</u>	HEATER	<u>N/A</u>
DEHUMIDIFIER	<u>N/A</u>	NEEDS CLEANING	<u>NO</u>	PAINTING	<u>NO</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70689

DATE 9-23-16 INITIALS D.N.STATION ROTARY DR.LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>30.2</u>	PUMP #2 - AMPS	<u>6.8</u>
<u>1.2</u>	<u>29.4</u>	<u>7.3</u>	<u>7.0</u>
VOLTAGE	<u>245</u>	VOLTAGE	<u>245</u>
GLANDS	<u>1</u>	GLANDS	<u>1</u>
PACKING	<u>1</u>	PACKING	<u>1</u>
LUBE UNIT	<u>1</u>	LUBE UNIT	<u>1</u>
TEST VALVES	<u>1</u>	TEST VALVES	<u>1</u>

2. MOTOR CONTROL CENTER

hour meters	PUMP #1	<u>755.6</u>	COUNTER OUT	PUMP #2	<u>3127.7</u>	<u>4.9</u>
RUN LIGHTS	<u>OK</u>			ALARM TEST	<u>OK</u>	
MANUAL TEST	<u>OK</u>			AUTO TEST	<u>OK</u>	
GENERATOR TEST	<u>YES</u>	OIL LEVEL	<u>OK</u>	ANTI-FREEZE	<u>OK</u>	
FUEL	<u>N-GAS</u>	BATTERY	<u>OK</u>	HOUR METER	<u>134.06 - 134.13</u>	
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES						
LEAD PUMP ON	<u>1</u>	OFF	<u>1</u>	LAG ON	<u>1</u>	OFF <u>1</u>
BOTH PUMPS ON	<u>1</u>	OFF	<u>1</u>	ALARM ON	<u>1</u>	OFF <u>1</u>

3. WET WELL

GREASE BUILD-UP	<u>LITTLE</u>	FLOATS	<u>OK</u>	DEBRIS	<u>SOME</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u>1</u>		
ENZYME PUMP	<u>1</u>	HYPO PUMP	<u>1</u>	NEEDS HYPO	<u>1</u>
CL-2 READING	<u>1</u>	pH READING	<u>1</u>		
FLOW METER READINGS					
				CURRENT	
				PREVIOUS	
				DIFFERENCE	

4. COMPRESSORS

OIL LEVEL	<u>1</u>	GAUGE READING	<u>1</u>
BLEED SYSTEM	<u>1</u>	PURGE SYSTEM	<u>1</u>
RELIEF VALVE	<u>1</u>	LUBE	<u>1</u>
COMP #1 AMPS	<u>1</u>	ON	<u>1</u>
COMP #2 AMPS	<u>1</u>	OFF	<u>1</u>

5. BUILDING

LIGHTS	<u>OK</u>	SUMP PUMP	<u>1</u>	HEATER	<u>1</u>
DEHUMIDIFIER	<u>1</u>	NEEDS CLEANING	<u>1</u>	PAINTING	<u>1</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70735

DATE 9-30-16 INITIALS D.N.STATION ROTARY DR.LOCATED JOHNSTON**SERVICE CHECK LIST****1. PUMPS CONDITION**PUMP #1 - AMPS 27.2
1.5 27.1PUMP #2 - AMPS 7.1
2.5 6.9VOLTAGE 245 1Ø
GLANDS /
PACKING /
LUBE UNIT /
TEST VALVES /VOLTAGE 245 3Ø
GLANDS /
PACKING /
LUBE UNIT /
TEST VALVES /**2. MOTOR CONTROL CENTER**HOUR METERS PUMP #1 755.8 COUNTER
OUTPUMP #2 3132.5 4.8RUN LIGHTS OKALARM TEST OKMANUAL TEST OKAUTO TEST OKGENERATOR TEST YESOIL LEVEL OKANTI-FREEZE OKFUEL N-GASBATTERY OKHOUR METER 134.13 - 134.20

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON / OFF / LAG ON / OFF /
BOTH PUMPS ON / OFF / ALARM ON / OFF /**3. WET WELL**GREASE BUILD-UP SOME FLOATS OK DEBRIS SOMENEEDS CLEANING NO NEEDS ENZYMES /ENZYME PUMP / HYPO PUMP / NEEDS HYPO /CL-2 READING / pH READING /

FLOW METER READINGS

CURRENT	PREVIOUS	DIFFERENCE
<u>/</u>	<u>/</u>	<u>/</u>
<u>/</u>	<u>/</u>	<u>/</u>
<u>/</u>	<u>/</u>	<u>/</u>

4. COMPRESSORSOIL LEVEL /GAUGE READING /BLEED SYSTEM /PURGE SYSTEM /RELIEF VALVE /LUBE /COMP #1 AMPS /ON / OFF /COMP #2 AMPS /ON / OFF /**5. BUILDING**LIGHTS OK SUMP PUMP / HEATER /DEHUMIDIFIER / NEEDS CLEANING / PAINTING /**6. SPECIAL NOTES**

CUSTOMER SIGNATURE: _____

FERNCO SERVICES, INC.

508-336-3222

69786

DATE 9-2-16 INITIALS D-N
STATION S. BENNETT DR.
LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>17.2</u> <u>16.8</u>	PUMP #2 - AMPS	<u>14.2</u> <u>12.8</u>
VOLTAGE	<u>242</u> ¹⁰	VOLTAGE	<u>242</u> ¹⁰
GLANDS	<u> </u>	GLANDS	<u> </u>
PACKING	<u> </u>	PACKING	<u> </u>
LUBE UNIT	<u> </u>	LUBE UNIT	<u> </u>
TEST VALVES	<u> </u>	TEST VALVES	<u> </u>

2. MOTOR CONTROL CENTER

hour meters	PUMP #1 <u>N/A</u>	PUMP #2 <u>N/A</u>	
RUN LIGHTS	<u>OK</u>	ALARM TEST <u>OK</u>	
MANUAL TEST	<u>OK</u>	AUTO TEST <u>OK</u>	
GENERATOR TEST	<u>N/A</u>	OIL LEVEL <u> </u>	
FUEL	<u> </u>	ANTI-FREEZE <u> </u>	
BATTERY	<u> </u>	HOUR METER <u> </u>	
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES			
LEAD PUMP ON	<u> </u>	OFF <u> </u>	LAG ON <u> </u>
BOTH PUMPS ON	<u> </u>	OFF <u> </u>	ALARM ON <u> </u>
		OFF <u> </u>	OFF <u> </u>

3. WET WELL

GREASE BUILD-UP	<u>SOME</u>	FLOATS	<u>OK</u>	DEBRIS	<u>SOME</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u> </u>		
ENZYME PUMP	<u> </u>	HYPO PUMP	<u> </u>	NEEDS HYPO	<u> </u>
CL-2 READING	<u> </u>	pH READING	<u> </u>		
FLOW METER READINGS					

<u> </u>	CURRENT
<u> </u>	PREVIOUS
<u> </u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u> </u>	GAUGE READING	<u> </u>
BLEED SYSTEM	<u> </u>	PURGE SYSTEM	<u> </u>
RELIEF VALVE	<u> </u>	LUBE	<u> </u>
COMP #1 AMPS	<u> </u>	ON <u> </u>	OFF <u> </u>
COMP #2 AMPS	<u> </u>	ON <u> </u>	OFF <u> </u>

5. BUILDING

LIGHTS	<u> </u>	SUMP PUMP	<u> </u>	HEATER	<u> </u>
DEHUMIDIFIER	<u> </u>	NEEDS CLEANING	<u> </u>	PAINTING	<u> </u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE:

FERNCO SERVICES INC.

508-336-3222

70606

DATE 9-8-16 INITIALS D.N.
STATION S. BENNETT DR.
LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>12.8</u>	PUMP #2 - AMPS	<u>16.8</u>
<u>3.8</u>	<u>10.6</u>		<u>16.6</u>
VOLTAGE	<u>243</u>	VOLTAGE	<u>243</u>
GLANDS	<u>1</u>	GLANDS	<u>1</u>
PACKING	<u>1</u>	PACKING	<u>1</u>
LUBE UNIT	<u>1</u>	LUBE UNIT	<u>1</u>
TEST VALVES	<u>1</u>	TEST VALVES	<u>1</u>

2. MOTOR CONTROL CENTER

HOUR METERS PUMP #1	<u>N/A</u>	PUMP #2	<u>N/A</u>
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>OK</u>
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>OK</u>
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>1</u>
FUEL	<u>1</u>	BATTERY	<u>1</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES		ANTI-FREEZE	<u>1</u>
LEAD PUMP ON	<u>1</u>	LAG ON	<u>1</u>
BOTH PUMPS ON	<u>1</u>	ALARM ON	<u>1</u>
	<u>1</u>	OFF	<u>1</u>
	<u>1</u>	OFF	<u>1</u>

3. WET WELL

GREASE BUILD-UP	<u>SOME</u>	FLOATS	<u>OK</u>	DEBRIS	<u>SOME</u>
NEEDS CLEANING	<u>YES</u>	NEEDS ENZYMES	<u>1</u>		
ENZYME PUMP	<u>1</u>	HYPO PUMP	<u>1</u>	NEEDS HYPO	<u>1</u>
CL-2 READING	<u>1</u>	pH READING	<u>1</u>		
FLOW METER READINGS	<u>1</u>				
		CURRENT	<u>1</u>		
		PREVIOUS	<u>1</u>		
		DIFFERENCE	<u>1</u>		

4. COMPRESSORS

OIL LEVEL	<u>1</u>	GAUGE READING	<u>1</u>
BLEED SYSTEM	<u>1</u>	PURGE SYSTEM	<u>1</u>
RELIEF VALVE	<u>1</u>	LUBE	<u>1</u>
COMP #1 AMPS	<u>1</u>	ON	<u>1</u>
COMP #2 AMPS	<u>1</u>	OFF	<u>1</u>
		ON	<u>1</u>
		OFF	<u>1</u>

5. BUILDING

LIGHTS	<u>1</u>	SUMP PUMP	<u>1</u>	HEATER	<u>1</u>
DEHUMIDIFIER	<u>1</u>	NEEDS CLEANING	<u>1</u>	PAINTING	<u>1</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70664

DATE 9-16-16 INITIALS D.N.

STATION So. BENNETT DR.

LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS

17.5
17.4

PUMP #2 - AMPS

9.6
7.4

VOLTAGE

244

GLANDS

PACKING

LUBE UNIT

TEST VALVES

VOLTAGE

244

GLANDS

PACKING

LUBE UNIT

TEST VALVES

2. MOTOR CONTROL CENTER

HOOR METERS PUMP #1

N/A

PUMP #2

N/A

RUN LIGHTS

OK

ALARM TEST

OK

MANUAL TEST

OK

AUTO TEST

OK

GENERATOR TEST

N/A

OIL LEVEL

ANTI-FREEZE

FUEL

BATTERY

HOUR METER

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON

OFF

LAG ON

OFF

BOTH PUMPS ON

OFF

ALARM ON

OFF

3. WET WELL

GREASE BUILD-UP

SOME

FLOATS

OK

DEBRIS

SOME

NEEDS CLEANING

NO

NEEDS ENZYMES

ENZYME PUMP

HYPO PUMP

NEEDS HYPO

CL-2 READING

pH READING

FLOW METER READINGS

CURRENT

PREVIOUS

DIFFERENCE

4. COMPRESSORS

OIL LEVEL

BLEED SYSTEM

RELIEF VALVE

COMP #1 AMPS

COMP #2 AMPS

GAUGE READING

PURGE SYSTEM

LUBE

ON

OFF

ON

OFF

5. BUILDING

LIGHTS

SUMP PUMP

HEATER

DEHUMIDIFIER

NEEDS CLEANING

PAINTING

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70692

DATE 7-23-16 INITIALS DN

STATION S. BENNETT DR.

LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>15.7</u> <u>15.5</u>	PUMP #2 - AMPS	<u>11.4</u> <u>9.6</u>
VOLTAGE	<u>240 V</u>	VOLTAGE	<u>240 V</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

HOOR METERS PUMP #1	<u>N/A</u>	PUMP #2	<u>N/A</u>
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>OK</u>
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>OK</u>
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>/</u>
FUEL	<u>/</u>	ANTI-FREEZE	<u>/</u>
BATTERY	<u>/</u>	HOUR METER	<u>/</u>

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON	<u>/</u>	OFF	<u>/</u>	LAG ON	<u>/</u>	OFF	<u>/</u>
BOTH PUMPS ON	<u>/</u>	OFF	<u>/</u>	ALARM ON	<u>/</u>	OFF	<u>/</u>

3. WET WELL

GREASE BUILD-UP	<u>SOME</u>	FLOATS	<u>OK</u>	DEBRIS	<u>SOME</u>
NEEDS CLEANING	<u>N/A</u>	NEEDS ENZYMES	<u>/</u>		
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL-2 READING	<u>/</u>	pH READING	<u>/</u>		

FLOW METER READINGS

<u>/</u>	CURRENT
<u>/</u>	PREVIOUS
<u>/</u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>
COMP #2 AMPS	<u>/</u>	OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>/</u>	SUMP PUMP	<u>/</u>	HEATER	<u>/</u>
DEHUMIDIFIER	<u>/</u>	NEEDS CLEANING	<u>/</u>	PAINTING	<u>/</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70738

DATE 9-30-16 INITIALS D.V.

STATION 3. BENNETT DR.

LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>17.3</u> <u>17.0</u>	PUMP #2 - AMPS	<u>13.1</u> <u>3.6</u> <u>10.4</u>
VOLTAGE	<u>245</u> ¹⁰	VOLTAGE	<u>245</u> ¹⁰
GLANDS	<u> </u>	GLANDS	<u> </u>
PACKING	<u> </u>	PACKING	<u> </u>
LUBE UNIT	<u> </u>	LUBE UNIT	<u> </u>
TEST VALVES	<u> </u>	TEST VALVES	<u> </u>

2. MOTOR CONTROL CENTER

HOOR METERS PUMP #1	<u>N/A</u>	PUMP #2	<u>N/A</u>
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>OK</u>
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>OK</u>
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u> </u>
FUEL	<u> </u>	ANTI-FREEZE	<u> </u>
BATTERY	<u> </u>	HOUR METER	<u> </u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES			
LEAD PUMP ON	<u> </u>	OFF	<u> </u>
BOTH PUMPS ON	<u> </u>	OFF	<u> </u>
LAG ON	<u> </u>	OFF	<u> </u>
ALARM ON	<u> </u>	OFF	<u> </u>

3. WET WELL

GREASE BUILD-UP	<u>SOME</u>	FLOATS	<u>OK</u>	DEBRIS	<u>SOME</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u> </u>		
ENZYME PUMP	<u> </u>	HYPO PUMP	<u> </u>	NEEDS HYPO	<u> </u>
CL-2 READING	<u> </u>	pH READING	<u> </u>		
FLOW METER READINGS					
	<u> </u>		<u> </u>	CURRENT	<u> </u>
	<u> </u>		<u> </u>	PREVIOUS	<u> </u>
	<u> </u>		<u> </u>	DIFFERENCE	<u> </u>

4. COMPRESSORS

OIL LEVEL	<u> </u>	GAUGE READING	<u> </u>
BLEED SYSTEM	<u> </u>	PURGE SYSTEM	<u> </u>
RELIEF VALVE	<u> </u>	LUBE	<u> </u>
COMP #1 AMPS	<u> </u>	ON	<u> </u>
COMP #2 AMPS	<u> </u>	OFF	<u> </u>
		ON	<u> </u>
		OFF	<u> </u>

5. BUILDING

LIGHTS	<u> </u>	SUMP PUMP	<u> </u>	HEATER	<u> </u>
DEHUMIDIFIER	<u> </u>	NEEDS CLEANING	<u> </u>	PAINTING	<u> </u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE:

FERNCO SERVICES INC.

508-336-3222

69785

DATE 9-2-16 INITIALS D.N.STATION SPRAGUE CIR.LOCATED JOHNSTON**SERVICE CHECK LIST****1. PUMPS CONDITION**

PUMP #1 - AMPS	<u>17.6</u>	PUMP #2 - AMPS	<u>16.7</u>
<u>17.2</u>	<u>17.8</u>	<u>16.8</u>	<u>16.7</u>
VOLTAGE	<u>245 3Ø</u>	VOLTAGE	<u>245 3Ø</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

HOOR METERS PUMP #1	<u>16063.7</u>	PUMP #2	<u>17019.8</u>	<u>14.7</u>	
RUN LIGHTS	<u>N/A</u>	ALARM TEST	<u>OK</u>		
MANUAL TEST	<u>11/6</u>	AUTO TEST	<u>OK</u>		
GENERATOR TEST	<u>11/6</u>	OIL LEVEL	<u>/</u>	ANTI-FREEZE	<u>/</u>
FUEL	<u>/</u>	BATTERY	<u>/</u>	HOUR METER	<u>/</u>

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON	<u>/</u>	OFF	<u>/</u>	LAG ON	<u>/</u>	OFF	<u>/</u>
BOTH PUMPS ON	<u>/</u>	OFF	<u>/</u>	ALARM ON	<u>/</u>	OFF	<u>/</u>

3. WET WELL

GREASE BUILD-UP	<u>YES</u>	FLOATS	<u>OK</u>	DEBRIS	<u>YES</u>
NEEDS CLEANING	<u>YES</u>	NEEDS ENZYMES	<u>/</u>		
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL-2 READING	<u>/</u>	pH READING	<u>/</u>		

FLOW METER READINGS

<u>/</u>	CURRENT
<u>/</u>	PREVIOUS
<u>/</u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>		
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>		
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>		
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>	OFF	<u>/</u>
COMP #2 AMPS	<u>/</u>	ON	<u>/</u>	OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>/</u>	SUMP PUMP	<u>/</u>	HEATER	<u>/</u>
DEHUMIDIFIER	<u>/</u>	NEEDS CLEANING	<u>/</u>	PAINTING	<u>/</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70605

DATE 9-8-16 INITIALS D.W.STATION SPRAGUE CIR.LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>17.2</u>	PUMP #2 - AMPS	<u>16.2</u>
<u>17.6</u>	<u>17.6</u>	<u>17.2</u>	<u>16.8</u>
VOLTAGE	<u>243 3ϕ</u>	VOLTAGE	<u>243 3ϕ</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

HOURL METERS PUMP #1	<u>16063.8</u>	PUMP #2	<u>17032.4</u>	<u>12.6</u>	
RUN LIGHTS	<u>N/A</u>	ALARM TEST	<u>OK</u>		
MANUAL TEST	<u>N/A</u>	AUTO TEST	<u>OK</u>		
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>/</u>	ANTI-FREEZE	<u>/</u>
FUEL	<u>/</u>	BATTERY	<u>/</u>	HOUR METER	<u>/</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES					
LEAD PUMP ON	<u>/</u>	OFF	<u>/</u>	LAG ON	<u>/</u>
BOTH PUMPS ON	<u>/</u>	OFF	<u>/</u>	ALARM ON	<u>/</u>

3. WET WELL

GREASE BUILD-UP	<u>YES</u>	FLOATS	<u>OK</u>	DEBRIS	<u>YES</u>
NEEDS CLEANING	<u>YES</u>	NEEDS ENZYMES	<u>/</u>		
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL-2 READING	<u>/</u>	pH READING	<u>/</u>		
FLOW METER READINGS					

<u>/</u>	CURRENT
<u>/</u>	PREVIOUS
<u>/</u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>
COMP #2 AMPS	<u>/</u>	OFF	<u>/</u>
		ON	<u>/</u>
		OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>/</u>	SUMP PUMP	<u>/</u>	HEATER	<u>/</u>
DEHUMIDIFIER	<u>/</u>	NEEDS CLEANING	<u>/</u>	PAINTING	<u>/</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70663

DATE 9-16-16 INITIALS DN
STATION SPRAGUE CIR.
LOCATED JOHNSTON

SERVICE CHECK LIST**1. PUMPS CONDITION**

PUMP #1 - AMPS	<u>16.6</u>	PUMP #2 - AMPS	<u>16.7</u>
<u>17.5</u>	<u>17.6</u>	<u>16.7</u>	<u>17.3</u>
VOLTAGE	<u>243.3</u>	VOLTAGE	<u>243.3</u>
GLANDS	<u>1</u>	GLANDS	<u>1</u>
PACKING	<u>1</u>	PACKING	<u>1</u>
LUBE UNIT	<u>1</u>	LUBE UNIT	<u>1</u>
TEST VALVES	<u>1</u>	TEST VALVES	<u>1</u>

2. MOTOR CONTROL CENTER

HOURLY METERS PUMP #1	<u>16063.9</u>	PUMP #2	<u>17050.4</u>
RUN LIGHTS	<u>N/A</u>	ALARM TEST	<u>OK</u>
MANUAL TEST	<u>N/A</u>	AUTO TEST	<u>OK</u>
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>1</u>
FUEL	<u>1</u>	ANTI-FREEZE	<u>1</u>
BATTERY	<u>1</u>	HOUR METER	<u>1</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES			
LEAD PUMP ON	<u>1</u>	OFF	<u>1</u>
BOTH PUMPS ON	<u>1</u>	OFF	<u>1</u>
LAG ON	<u>1</u>	OFF	<u>1</u>
ALARM ON	<u>1</u>	OFF	<u>1</u>

3. WET WELL

GREASE BUILD-UP	<u>YES</u>	FLOATS	<u>OK</u>	DEBRIS	<u>YES</u>
NEEDS CLEANING	<u>YES</u>	NEEDS ENZYMES	<u>1</u>		
ENZYME PUMP	<u>1</u>	HYPO PUMP	<u>1</u>	NEEDS HYPO	<u>1</u>
CL-2 READING	<u>1</u>	pH READING	<u>1</u>		
FLOW METER READINGS					
	<u>1</u>	CURRENT	<u>1</u>		
	<u>1</u>	PREVIOUS	<u>1</u>		
	<u>1</u>	DIFFERENCE	<u>1</u>		

4. COMPRESSORS

OIL LEVEL	<u>1</u>	GAUGE READING	<u>1</u>
BLEED SYSTEM	<u>1</u>	PURGE SYSTEM	<u>1</u>
RELIEF VALVE	<u>1</u>	LUBE	<u>1</u>
COMP #1 AMPS	<u>1</u>	ON	<u>1</u>
COMP #2 AMPS	<u>1</u>	OFF	<u>1</u>

5. BUILDING

LIGHTS	<u>1</u>	SUMP PUMP	<u>1</u>	HEATER	<u>1</u>
DEHUMIDIFIER	<u>1</u>	NEEDS CLEANING	<u>1</u>	PAINTING	<u>1</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70691

DATE 9-23-16 INITIALS DJN

STATION SPRAGUE CIR.

LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>16.4</u>	PUMP #2 - AMPS	<u>16.1</u>
<u>17.1</u>	<u>17.3</u>	<u>16.4</u>	<u>17.0</u>
VOLTAGE	<u>243.3</u>	VOLTAGE	<u>243.3</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

HOUR METERS PUMP #1	<u>16063.9</u>	PUMP #2	<u>17065.4</u>	<u>15.?</u>
RUN LIGHTS	<u>N/A</u>	ALARM TEST	<u>OK</u>	
MANUAL TEST	<u>N/A</u>	AUTO TEST	<u>OK</u>	
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>/</u>	ANTI-FREEZE <u>/</u>
FUEL	<u>/</u>	BATTERY	<u>/</u>	HOUR METER <u>/</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES				
LEAD PUMP ON	<u>/</u>	OFF	<u>/</u>	LAG ON <u>/</u>
BOTH PUMPS ON	<u>/</u>	OFF	<u>/</u>	ALARM ON <u>/</u>

3. WET WELL

GREASE BUILD-UP	<u>YES</u>	FLOATS	<u>OK</u>	DEBRIS	<u>YES</u>
NEEDS CLEANING	<u>YES</u>	NEEDS ENZYMES	<u>/</u>		
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL-2 READING	<u>/</u>	pH READING	<u>/</u>		
FLOW METER READINGS					
				CURRENT	
				PREVIOUS	
				DIFFERENCE	

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>
COMP #2 AMPS	<u>/</u>	OFF	<u>/</u>
		ON	<u>/</u>
		OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>/</u>	SUMP PUMP	<u>/</u>	HEATER	<u>/</u>
DEHUMIDIFIER	<u>/</u>	NEEDS CLEANING	<u>/</u>	PAINTING	<u>/</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70737

DATE 9-30-16 INITIALS D.N.

STATION SPRAGUE CIR.

LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>15.3</u>	PUMP #2 - AMPS	<u>16.1</u>
<u>16.8</u>	<u>17.0</u>	<u>17.4</u>	<u>17.7</u>
VOLTAGE	<u>243.30</u>	VOLTAGE	<u>243.30</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

HOOR METERS PUMP #1	<u>16063.9</u>	PUMP #2	<u>17079.7</u>	<u>14.3</u>
RUN LIGHTS	<u>N/A</u>	ALARM TEST	<u>OK</u>	
MANUAL TEST	<u>N/A</u>	AUTO TEST	<u>OK</u>	
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>/</u>	ANTI-FREEZE <u>/</u>
FUEL	<u>/</u>	BATTERY	<u>/</u>	HOUR METER <u>/</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES				
LEAD PUMP ON	<u>/</u>	OFF	<u>/</u>	LAG ON <u>/</u>
BOTH PUMPS ON	<u>/</u>	OFF	<u>/</u>	ALARM ON <u>/</u>
				OFF <u>/</u>

3. WET WELL

GREASE BUILD-UP	<u>YES</u>	FLOATS	<u>OK</u>	DEBRIS	<u>YES</u>
NEEDS CLEANING	<u>YES</u>	NEEDS ENZYMES	<u>/</u>		<u>/</u>
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL-2 READING	<u>/</u>	pH READING	<u>/</u>		<u>/</u>
FLOW METER READINGS					

<u>/</u>	<u>/</u>	CURRENT
<u>/</u>	<u>/</u>	PREVIOUS
<u>/</u>	<u>/</u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>
COMP #2 AMPS	<u>/</u>	OFF	<u>/</u>
		ON	<u>/</u>
		OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>/</u>	SUMP PUMP	<u>/</u>	HEATER	<u>/</u>
DEHUMIDIFIER	<u>/</u>	NEEDS CLEANING	<u>/</u>	PAINTING	<u>/</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

69784

DATE 9-2-16 INITIALS D.N.STATION SUSAN CIR.LOCATED JOHNSTON

LEAD SERVICE CHECK LIST 122

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>14.8</u>	PUMP #2 - AMPS	<u>15.5</u>
	<u>14.6</u>		<u>15.8</u>
VOLTAGE	<u>246</u>	VOLTAGE	<u>246</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

HOOR METERS PUMP #1	<u>583.4</u>	6.7	PUMP #2	<u>510.0</u>	<u>8</u>
RUN LIGHTS	<u>OK</u>		ALARM TEST	<u>OK</u>	
MANUAL TEST	<u>OK</u>		AUTO TEST	<u>OK</u>	
GENERATOR TEST	<u>1 1/2</u>	OIL LEVEL		ANTI-FREEZE	<u>/</u>
FUEL	<u>/</u>	BATTERY		HOOR METER	<u>/</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES					
LEAD PUMP ON	<u>/</u>	OFF	<u>/</u>	LAG ON	<u>/</u>
BOTH PUMPS ON	<u>/</u>	OFF	<u>/</u>	ALARM ON	<u>/</u>
				OFF	<u>/</u>

3. WET WELL

GREASE BUILD-UP	<u>YES</u>	FLOATS	<u>OK</u>	DEBRIS	<u>YES</u>
NEEDS CLEANING	<u>YES</u>	NEEDS ENZYMES	<u>/</u>		
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL-2 READING	<u>/</u>	pH READING	<u>/</u>		
FLOW METER READINGS					
				CURRENT	
				PREVIOUS	
				DIFFERENCE	

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>
COMP #2 AMPS	<u>/</u>	OFF	<u>/</u>
		ON	<u>/</u>
		OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>/</u>	SUMP PUMP	<u>/</u>	HEATER	<u>/</u>
DEHUMIDIFIER	<u>/</u>	NEEDS CLEANING	<u>/</u>	PAINTING	<u>/</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70604

DATE 9-8-16 INITIALS D.N.STATION SUSAN CIR.LOCATED JOHNSTON

LEED

SERVICE CHECK LIST LNA**1. PUMPS CONDITION**PUMP #1 - AMPS 16.6
16.0PUMP #2 - AMPS 11.7
11.0VOLTAGE 250 17
GLANDS |
PACKING |
LUBE UNIT |
TEST VALVES |VOLTAGE 250 17
GLANDS |
PACKING |
LUBE UNIT |
TEST VALVES |**2. MOTOR CONTROL CENTER** 7HOUR METERS PUMP #1 5589.7 6.3RUN LIGHTS OKMANUAL TEST OKGENERATOR TEST N/AFUEL |

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON | OFF | LAG ON | OFF |
BOTH PUMPS ON | OFF | ALARM ON | OFF |PUMP #2 510.0 8ALARM TEST OKAUTO TEST OKANTI-FREEZE |HOUR METER |**3. WET WELL**GREASE BUILD-UP YES FLOATS OK DEBRIS YESNEEDS CLEANING YES NEEDS ENZYMES |ENZYME PUMP | HYPO PUMP | NEEDS HYPO |CL-2 READING | pH READING |

FLOW METER READINGS

	CURRENT
	PREVIOUS
	DIFFERENCE

4. COMPRESSORSOIL LEVEL |BLEED SYSTEM |RELIEF VALVE |COMP #1 AMPS |COMP #2 AMPS |GAUGE READING |PURGE SYSTEM |LUBE |ON | OFF |ON | OFF |**5. BUILDING**LIGHTS | SUMP PUMP | HEATER |DEHUMIDIFIER | NEEDS CLEANING | PAINTING |**6. SPECIAL NOTES**

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70662

DATE 9-16-16INITIALS D.N.STATION SUSAN CIR.LOCATED JOHNSTON

LEAD

SERVICE CHECK LIST L-4**1. PUMPS CONDITION**PUMP #1 - AMPS 16.2
15.3PUMP #2 - AMPS 15.6
15.5VOLTAGE 242 1/2
GLANDS
PACKING
LUBE UNIT
TEST VALVES VOLTAGE 242 1/2
GLANDS
PACKING
LUBE UNIT
TEST VALVES **2. MOTOR CONTROL CENTER**HOUR METERS PUMP #1 5597.8 8.1PUMP #2 510.0 2RUN LIGHTS OKALARM TEST OKMANUAL TEST OKAUTO TEST OKGENERATOR TEST 11/2OIL LEVEL ANTI-FREEZE FUEL BATTERY HOUR METER

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON OFF LAG ON OFF
BOTH PUMPS ON OFF ALARM ON OFF **3. WET WELL**GREASE BUILD-UP YES FLOATS OK DEBRIS YESNEEDS CLEANING YES NEEDS ENZYMES ENZYME PUMP HYPO PUMP NEEDS HYPO CL-2 READING pH READING

FLOW METER READINGS

 CURRENT
 PREVIOUS
 DIFFERENCE**4. COMPRESSORS**OIL LEVEL GAUGE READING BLEED SYSTEM PURGE SYSTEM RELIEF VALVE LUBE COMP #1 AMPS ON OFF COMP #2 AMPS ON OFF **5. BUILDING**LIGHTS SUMP PUMP HEATER DEHUMIDIFIER NEEDS CLEANING PAINTING **6. SPECIAL NOTES**CUSTOMER SIGNATURE:

FERNCO SERVICES INC.

508-336-3222

70690

DATE P-23-16INITIALS ONSTATION SUSAN CIRLOCATED JOHNSTON

LEAO

SERVICE CHECK LIST LAG**1. PUMPS CONDITION**

PUMP #1 - AMPS

13.6
13.4

PUMP #2 - AMPS

16.7
15.7

VOLTAGE

243 ¹⁰

GLANDS

PACKING

LUBE UNIT

TEST VALVES

VOLTAGE

243 ¹⁰

GLANDS

PACKING

LUBE UNIT

TEST VALVES

2. MOTOR CONTROL CENTER

HOUR METERS PUMP #1

5605.8 ^{8.0}

PUMP #2

510.3 ⁸

RUN LIGHTS

OK

ALARM TEST

OK

MANUAL TEST

OK

AUTO TEST

OK

GENERATOR TEST

N/A

OIL LEVEL

"

ANTI-FREEZE

"

FUEL

"

BATTERY

"

HOUR METER

"

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON

1

OFF

LAG ON

1

OFF

1

BOTH PUMPS ON

1

OFF

ALARM ON

1

OFF

1**3. WET WELL**

GREASE BUILD-UP

YES

FLOATS

OK

DEBRIS

YES

NEEDS CLEANING

YES

NEEDS ENZYMES

1

ENZYME PUMP

1

HYPO PUMP

1

NEEDS HYPO

1CL₂ READING1

pH READING

1

FLOW METER READINGS

111

CURRENT

PREVIOUS

DIFFERENCE

4. COMPRESSORS

OIL LEVEL

1

GAUGE READING

1

BLEED SYSTEM

1

PURGE SYSTEM

1

RELIEF VALVE

1

LUBE

1

COMP #1 AMPS

1

ON

OFF

COMP #2 AMPS

1

ON

OFF

5. BUILDING

LIGHTS

1

SUMP PUMP

1

HEATER

1

DEHUMIDIFIER

1

NEEDS CLEANING

1

PAINTING

1**6. SPECIAL NOTES**

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70736

DATE 9-30-16 INITIALS D.N.
STATION SUSAN CIR.
LOCATED JOHNSTON

LEAD

SERVICE CHECK LIST LAG**1. PUMPS CONDITION**

PUMP #1 - AMPS	<u>14.9</u>	PUMP #2 - AMPS	<u>14.8</u>
	<u>14.8</u>		<u>14.5</u>
VOLTAGE	<u>245.10</u>	VOLTAGE	<u>245.10</u>
GLANDS	<u> </u>	GLANDS	<u> </u>
PACKING	<u> </u>	PACKING	<u> </u>
LUBE UNIT	<u> </u>	LUBE UNIT	<u> </u>
TEST VALVES	<u> </u>	TEST VALVES	<u> </u>

2. MOTOR CONTROL CENTER

HOOR METERS PUMP #1	<u>5613.1</u>	PUMP #2	<u>510.0</u>
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>OK</u>
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>OK</u>
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u> </u>
FUEL	<u> </u>	ANTI-FREEZE	<u> </u>
BATTERY	<u> </u>	HOUR METER	<u> </u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES			
LEAD PUMP ON	<u> </u>	OFF	<u> </u>
BOTH PUMPS ON	<u> </u>	OFF	<u> </u>
LAG ON	<u> </u>	OFF	<u> </u>
ALARM ON	<u> </u>	OFF	<u> </u>

3. WET WELL

GREASE BUILD-UP	<u>YES</u>	FLOATS	<u>OK</u>	DEBRIS	<u>YES</u>
NEEDS CLEANING	<u>YES</u>	NEEDS ENZYMES	<u> </u>		
ENZYME PUMP	<u> </u>	HYPO PUMP	<u> </u>	NEEDS HYPO	<u> </u>
CL-2 READING	<u> </u>	pH READING	<u> </u>		
FLOW METER READINGS					

<u> </u>	CURRENT
<u> </u>	PREVIOUS
<u> </u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u> </u>	GAUGE READING	<u> </u>
BLEED SYSTEM	<u> </u>	PURGE SYSTEM	<u> </u>
RELIEF VALVE	<u> </u>	LUBE	<u> </u>
COMP #1 AMPS	<u> </u>	ON	<u> </u>
COMP #2 AMPS	<u> </u>	OFF	<u> </u>
		ON	<u> </u>
		OFF	<u> </u>

5. BUILDING

LIGHTS	<u> </u>	SUMP PUMP	<u> </u>	HEATER	<u> </u>
DEHUMIDIFIER	<u> </u>	NEEDS CLEANING	<u> </u>	PAINTING	<u> </u>

6. SPECIAL NOTESCUSTOMER SIGNATURE:

FERNCO SERVICES INC.

508-336-3222

69791

DATE 9-2-16 INITIALS D.N.

STATION GREEN VALLEY DR.

LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>21.4</u>	PUMP #2 - AMPS	<u>18.8</u>
<u>21.6</u>	<u>22.9</u>	<u>18.6</u>	<u>19.9</u>
VOLTAGE	<u>211.3</u>	VOLTAGE	<u>211.3</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

HOOR METERS PUMP #1	<u>N/A</u>	PUMP #2	<u>N/A</u>
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>OK</u>
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>OK</u>
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>"</u>
FUEL	<u>"</u>	BATTERY	<u>"</u>
		ANTI-FREEZE	<u>"</u>
		HOUR METER	<u>/</u>

BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES

LEAD PUMP ON	<u>/</u>	OFF	<u>/</u>	LAG ON	<u>/</u>	OFF	<u>/</u>
BOTH PUMPS ON	<u>/</u>	OFF	<u>/</u>	ALARM ON	<u>/</u>	OFF	<u>/</u>

3. WET WELL

GREASE BUILD-UP	<u>SOME</u>	FLOATS	<u>OK</u>	DEBRIS	<u>SOME</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u>/</u>		
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL-2 READING	<u>/</u>	pH READING	<u>/</u>		

FLOW METER READINGS

<u>/</u>	CURRENT
<u>/</u>	PREVIOUS
<u>/</u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>
COMP #2 AMPS	<u>/</u>	OFF	<u>/</u>
		ON	<u>/</u>
		OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>OK</u>	SUMP PUMP	<u>/</u>	HEATER	<u>/</u>
DEHUMIDIFIER	<u>/</u>	NEEDS CLEANING	<u>/</u>	PAINTING	<u>/</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70600

DATE 9-8-16 INITIALS D-N.STATION GREEN VALLEY DR.LOCATED JOHNSTON**SERVICE CHECK LIST****1. PUMPS CONDITION**

PUMP #1 - AMPS	<u>21.2</u>	PUMP #2 - AMPS	<u>20.3</u>
<u>20.4</u>	<u>21.0</u>	<u>20.1</u>	<u>20.5</u>
VOLTAGE	<u>208 3Ø</u>	VOLTAGE	<u>208 3Ø</u>
GLANDS	<u> </u>	GLANDS	<u> </u>
PACKING	<u> </u>	PACKING	<u> </u>
LUBE UNIT	<u> </u>	LUBE UNIT	<u> </u>
TEST VALVES	<u> </u>	TEST VALVES	<u> </u>

2. MOTOR CONTROL CENTER

HOUR METERS PUMP #1	<u>N/A</u>	PUMP #2	<u>N/A</u>
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>OK</u>
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>OK</u>
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u> </u>
FUEL	<u> </u>	BATTERY	<u> </u>
		ANTI-FREEZE	<u> </u>
		HOUR METER	<u> </u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES			
LEAD PUMP ON	<u> </u>	OFF	<u> </u>
BOTH PUMPS ON	<u> </u>	OFF	<u> </u>
		LAG ON	<u> </u>
		ALARM ON	<u> </u>
		OFF	<u> </u>
		OFF	<u> </u>

3. WET WELL

GREASE BUILD-UP	<u>SOME</u>	FLOATS	<u>OK</u>	DEBRIS	<u>SOME</u>
NEEDS CLEANING	<u>N/A</u>	NEEDS ENZYMES	<u> </u>		<u> </u>
ENZYME PUMP	<u> </u>	HYPO PUMP	<u> </u>	NEEDS HYPO	<u> </u>
CL-2 READING	<u> </u>	pH READING	<u> </u>		<u> </u>
FLOW METER READINGS					

<u> </u>	CURRENT
<u> </u>	PREVIOUS
<u> </u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u> </u>	GAUGE READING	<u> </u>
BLEED SYSTEM	<u> </u>	PURGE SYSTEM	<u> </u>
RELIEF VALVE	<u> </u>	LUBE	<u> </u>
COMP #1 AMPS	<u> </u>	ON	<u> </u>
COMP #2 AMPS	<u> </u>	OFF	<u> </u>
		ON	<u> </u>
		OFF	<u> </u>

5. BUILDING

LIGHTS	<u>OK</u>	SUMP PUMP	<u> </u>	HEATER	<u> </u>
DEHUMIDIFIER	<u> </u>	NEEDS CLEANING	<u> </u>	PAINTING	<u> </u>

6. SPECIAL NOTESCUSTOMER SIGNATURE:

FERNCO SERVICES INC.

508-336-3222

70652

DATE 9-16-16 INITIALS D.N.STATION GREEN VALLEY DRLOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>21.4</u>	PUMP #2 - AMPS	<u>17.2</u>
<u>20.1</u>	<u>20.2</u>	<u>16.8</u>	<u>16.7</u>
VOLTAGE	<u>209 3/4</u>	VOLTAGE	<u>209 3/4</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

HOOR METERS PUMP #1	<u>N/A</u>	PUMP #2	<u>N/A</u>
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>OK</u>
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>OK</u>
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>/</u>
FUEL	<u>/</u>	ANTI-FREEZE	<u>/</u>
BATTERY	<u>/</u>	HOUR METER	<u>/</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES			
LEAD PUMP ON	<u>/</u>	OFF	<u>/</u>
BOTH PUMPS ON	<u>/</u>	OFF	<u>/</u>
LAG ON	<u>/</u>	OFF	<u>/</u>
ALARM ON	<u>/</u>	OFF	<u>/</u>

3. WET WELL

GREASE BUILD-UP	<u>LITTLE</u>	FLOATS	<u>CLEANED OK</u>	DEBRIS	<u>SOME</u>
NEEDS CLEANING	<u>N/A</u>	NEEDS ENZYMES	<u>/</u>		
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL-2 READING	<u>/</u>	pH READING	<u>/</u>		
FLOW METER READINGS					
				CURRENT	
				PREVIOUS	
				DIFFERENCE	

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>
COMP #2 AMPS	<u>/</u>	OFF	<u>/</u>
		ON	<u>/</u>
		OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>OK</u>	SUMP PUMP	<u>/</u>	HEATER	<u>/</u>
DEHUMIDIFIER	<u>/</u>	NEEDS CLEANING	<u>/</u>	PAINTING	<u>/</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70686

DATE 9-23-16 INITIALS DVSTATION GREEN VALLEY DR.LOCATED JOHNSTON**SERVICE CHECK LIST****1. PUMPS CONDITION**

PUMP #1 - AMPS	<u>22.6</u>	PUMP #2 - AMPS	<u>18.5</u>
<u>20.4</u>	<u>21.7</u>	<u>18.6</u>	<u>17.5</u>
VOLTAGE	<u>212³³</u>	VOLTAGE	<u>212³³</u>
GLANDS	<u>/</u>	GLANDS	<u>/</u>
PACKING	<u>/</u>	PACKING	<u>/</u>
LUBE UNIT	<u>/</u>	LUBE UNIT	<u>/</u>
TEST VALVES	<u>/</u>	TEST VALVES	<u>/</u>

2. MOTOR CONTROL CENTER

HOUR METERS PUMP #1	<u>N/A</u>	PUMP #2	<u>N/A</u>
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>OK</u>
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>OK</u>
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>/</u>
FUEL	<u>/</u>	ANTI-FREEZE	<u>/</u>
BATTERY	<u>/</u>	HOUR METER	<u>/</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES			
LEAD PUMP ON	<u>/</u>	LAG ON	<u>/</u>
BOTH PUMPS ON	<u>/</u>	ALARM ON	<u>/</u>
OFF	<u>/</u>	OFF	<u>/</u>

3. WET WELL

GREASE BUILD-UP	<u>N/A</u>	FLOATS	<u>OK</u>	DEBRIS	<u>SOME</u>
NEEDS CLEANING	<u>N/A</u>	NEEDS ENZYMES	<u>/</u>		
ENZYME PUMP	<u>/</u>	HYPO PUMP	<u>/</u>	NEEDS HYPO	<u>/</u>
CL-2 READING	<u>/</u>	pH READING	<u>/</u>		
FLOW METER READINGS					

<u>/</u>	CURRENT
<u>/</u>	PREVIOUS
<u>/</u>	DIFFERENCE

4. COMPRESSORS

OIL LEVEL	<u>/</u>	GAUGE READING	<u>/</u>
BLEED SYSTEM	<u>/</u>	PURGE SYSTEM	<u>/</u>
RELIEF VALVE	<u>/</u>	LUBE	<u>/</u>
COMP #1 AMPS	<u>/</u>	ON	<u>/</u>
COMP #2 AMPS	<u>/</u>	OFF	<u>/</u>
		ON	<u>/</u>
		OFF	<u>/</u>

5. BUILDING

LIGHTS	<u>OK</u>	SUMP PUMP	<u>/</u>	HEATER	<u>/</u>
DEHUMIDIFIER	<u>/</u>	NEEDS CLEANING	<u>/</u>	PAINTING	<u>/</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

FERNCO SERVICES INC.

508-336-3222

70732

DATE 9-30-16 INITIALS D.N.

STATION GREEN VALLEY Dr.

LOCATED JOHNSTON

SERVICE CHECK LIST

1. PUMPS CONDITION

PUMP #1 - AMPS	<u>21.7</u>	PUMP #2 - AMPS	<u>18.8</u>
<u>22.7</u>	<u>22.4</u>	<u>19.6</u>	<u>18.7</u>
VOLTAGE	<u>211 30</u>	VOLTAGE	<u>211 30</u>
GLANDS	<u>1</u>	GLANDS	<u>1</u>
PACKING	<u>1</u>	PACKING	<u>1</u>
LUBE UNIT	<u>1</u>	LUBE UNIT	<u>1</u>
TEST VALVES	<u>1</u>	TEST VALVES	<u>1</u>

2. MOTOR CONTROL CENTER

hour meters	PUMP #1	<u>N/A</u>	PUMP #2	<u>N/A</u>	
RUN LIGHTS	<u>OK</u>	ALARM TEST	<u>OK</u>		
MANUAL TEST	<u>OK</u>	AUTO TEST	<u>OK</u>		
GENERATOR TEST	<u>N/A</u>	OIL LEVEL	<u>1</u>	ANTI-FREEZE	<u>1</u>
FUEL	<u>1</u>	BATTERY	<u>1</u>	HOUR METER	<u>1</u>
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES					
LEAD PUMP ON	<u>1</u>	OFF	<u>1</u>	LAG ON	<u>1</u>
BOTH PUMPS ON	<u>1</u>	OFF	<u>1</u>	ALARM ON	<u>1</u>

3. WET WELL

GREASE BUILD-UP	<u>SOME</u>	FLOATS	<u>OK</u>	DEBRIS	<u>SOME</u>
NEEDS CLEANING	<u>NO</u>	NEEDS ENZYMES	<u>1</u>		
ENZYME PUMP	<u>1</u>	HYPO PUMP	<u>1</u>	NEEDS HYPO	<u>1</u>
CL-2 READING	<u>1</u>	pH READING	<u>1</u>		
FLOW METER READINGS					
			CURRENT		
			PREVIOUS		
			DIFFERENCE		

4. COMPRESSORS

OIL LEVEL	<u>1</u>	GAUGE READING	<u>1</u>
BLEED SYSTEM	<u>1</u>	PURGE SYSTEM	<u>1</u>
RELIEF VALVE	<u>1</u>	LUBE	<u>1</u>
COMP #1 AMPS	<u>1</u>	ON	<u>1</u>
COMP #2 AMPS	<u>1</u>	OFF	<u>1</u>

5. BUILDING

LIGHTS	<u>OK</u>	SUMP PUMP	<u>1</u>	HEATER	<u>1</u>
DEHUMIDIFIER	<u>1</u>	NEEDS CLEANING	<u>1</u>	PAINTING	<u>1</u>

6. SPECIAL NOTES

CUSTOMER SIGNATURE: _____

Appendix D

Town of Johnston

Pump Stations Emergency Call Log

Town of Johnston Emergency calls, 2011 - 2016

Pump Station	Date	Reason for Call	Corrective Action
Candice Court	12/26/2012	One pump not priming – Isolated pump	Cleaned probe and airlines
Candice Court	2/11/2013	Pump not priming – Isolated pump	Cleaned probe and airlines
Candice Court	10/19/2013	Pump not priming – Isolated pump	Cleaned probe and airlines
Candice Court	11/29/2014	Pump not priming – Isolated pump	Cleaned probe and airlines
Candice Court	2/15/2015	Bad compressor – Isolated pump	Replaced compressor within the next few days
Candice Court	7/11/2015	Floats stuck in solids – cleared accordingly	
Candice Court	3/16/2016	Found a grounding problem on the electrical add a phase system	Hired an outside electrician to repair the next day
Candice Court	3/17/2016	Found a grounding problem on the electrical add a phase system	
Sweet Hill Drive	2/18/2011	Clogged pump – Isolated pump	Cleared pump the next day
Sweet Hill Drive	6/21/2012	Breaker tripped – Reset and found working ok	
Sweet Hill Drive	9/18/2012	One pump clogged – Cleared accordingly – Station running ok	
Sweet Hill Drive	12/10/2012	Heavy rain causing the alarm and second pump to come on	
Industrial Lane	1/3/2011	Breaker tripped, pump not working – Isolated pump	Repaired pump the next day
Industrial Lane	2/23/2011	Pump not pumping – Isolated Pump	Cleared pump the next day
Jennifer Drive	12/3/2014	Floats not working properly – installed a new float	
Morgan Mill	3/26/2012	No alarm upon arrival station working ok	
Ostend Street	4/20/2011	Pump tripped breaker, reset pump is now working	
Ostend Street	4/26/2011	Pump tripped breaker again – Isolated pump	Cleared or replaced pump within a few days
Ostend Street	10/18/2012	One pump had bad capacitors – Isolated pump	Replaced capacitors within the next few days
Ostend Street	4/12/2014	Electrical problem in the control panel – Repaired on site	
Ostend Street	10/31/2014	Floats stuck in solids – cleared accordingly	
Ostend Street	5/16/2016	Pumps clogging and discharge check valves not working properly	
Ostend Street	5/23/2016	Pumps clogging and discharge check valves not working properly	Repaired piping and cleared pump from previous calls
Rotary Drive	3/25/2015	One pump clogged – Isolated pump	Cleared pump within the next few days
Rotary Drive	6/2/2015	Pump clogged – Isolated pump each time	Cleared pump within the next few days
Rotary Drive	6/9/2015	Pump clogged – Isolated pump each time	Cleared pump and modified the pump volute
Sprague Circle	2/8/2016	Floats not working properly – replaced on site	
Susan Circle	10/26/2014	Floats not working properly – Installed a new float	

List provided by Fernco Services on 3/30/2017.

Appendix E

Town of Johnston

Pump Stations Condition Assessment &
Preventive Maintenance / Corrective Measures Table

Johnston Sewers
Pump Stations Condition Assessment & Preventive Maintenance / Corrective Measures Table

Town of Johnston Owned Pump Stations

Station Name	Station and Pumps Data					Motor Control Center					Schedule
	Station Type	Year Built / Last Major Improvements	Pump Manufacturer	Year Pump(s) Installed	Preventive Maintenance / Corrective Measures	Alarm Type	Preventive Maintenance / Corrective Measures	Emergency Power	Preventive Maintenance / Corrective Measures	Other Preventive Maintenance / Corrective Measures	
Candice Court	Above Ground	Before 1985	Smith & Loveless	Before 1985; Original to Station	Contract outside company for solids and grease removal 2x/year	Audible & Visual	Install Automated/ Monitored Alarm System	None	Install receptacle for connection of Emergency Generator		Cleaning Contract / Alarm / Receptacle In place Q4 2017
Central Avenue	Above Ground	2015	Gorman Rupp	2015; Original to Station	Annual Maintenance Contract with Pump Manufacturers	Automated		Backup Generator			Maintenance Contract in place Q4 2017
Green Earth Way	Above Ground	Around 2010	Gorman Rupp	Around 2010; Original to Station	Annual Maintenance Contract with Pump Manufacturers	Automated		Backup Generator			Maintenance Contract in place Q4 2017
Industrial Lane	Submersible	Before 1980	Tsurumi	Around 2010		Visual only	Install Automated/ Monitored Alarm System	None	Install receptacle for connection of Emergency Generator	Replace Control Panel	Submit RFP for Control Panel Q4 2017. Alarm / Receptacle In place Q4 2017
Jennifer Drive	Submersible	Around 1990	Myers	Around 1990; Original to Station		Audible & Visual	Install Automated/ Monitored Alarm System	None	Install receptacle for connection of Emergency Generator	Replace Control Panel	Alarm / Receptacle / Control Panel in place Q4 2017
			Ebara	2016; 4th Quarter							
Morgan Mill Road	Submersible	Before 1980	Peabody Barnes	Around 2000	Install Two (2) New Tsurumi Cutting Pumps	Audible & Visual	Install Automated/ Monitored Alarm System	None	Install receptacle for connection of Emergency Generator		New Pumps / Alarm / Receptacle in place Q4 2017
Ostend Street	Submersible	Around 1985	Ebara	2017; 1st Quarter		Audible & Visual	Install Automated/ Monitored Alarm System	None	Install receptacle for connection of Emergency Generator		Alarm / Receptacle In place Q4 2017
			Ebara	Around 2010							
Recycle Road	Above Ground	Around 2010	Gorman Rupp	Around 2010; Original to Station	Annual Maintenance Contract with Pump Manufacturers	Automated		Backup Generator			Maintenance Contract in place Q4 2017
River Drive (Replacement)	Submersible	2017 (scheduled to be online in April)	HOMA	2017; Original to Station		Audible & Visual	Install Automated/ Monitored Alarm System		Install receptacle for connection of Emergency Generator		Alarm / Receptacle in place Q4 2017
Rotary Drive	Submersible	Around 2005	Tsurumi	Around 2015		Audible & Visual	Install Automated/ Monitored Alarm System	Backup Generator			Alarm in place Q4 2017
			Ebara	Around 2005; Original to Station							
South Bennett Drive(Replacement)	Submersible	2017 (scheduled to be online in April)	HOMA	2017; Original to Station		Audible & Visual	Install Automated/ Monitored Alarm System		Install receptacle for connection of Emergency Generator		Alarm / Receptacle in place Q4 2017
Sprague Circle	Above Ground	Around 1985	Smith & Loveless	Around 1985; Original to Station	Contract outside company for solids and grease removal 2x/year	Audible & Visual	Install Automated/ Monitored Alarm System	None	Install receptacle for connection of Emergency Generator		Cleaning Contract / Alarm / Receptacle in place Q4 2017
Susan Circle	Submersible	Around 1985	Ebara	Around 2005	Install New Ebara Grinder Pump	Audible & Visual	Install Automated/ Monitored Alarm System	None	Install receptacle for connection of Emergency Generator		New Pump / Alarm / Receptacle / Control Panel in place Q4 2017
			Myers	Around 2015							
Sweet Hill Drive	Submersible	Before 1980	Tsurumi	Around 2013		Visual only	Install Automated/ Monitored Alarm System	None	Install receptacle for connection of Emergency Generator	Replace Control Panel	Alarm / Receptacle / Control Panel in place Q4 2017

All Stations are duplex pump configuration

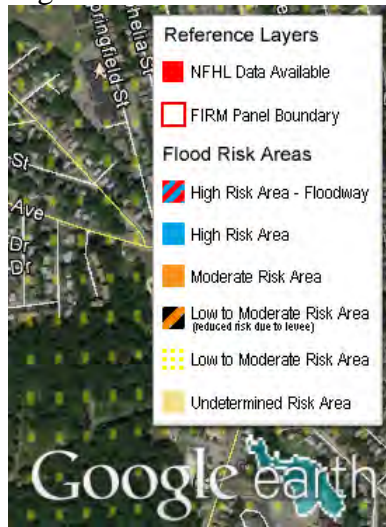
Appendix F

Town of Johnston

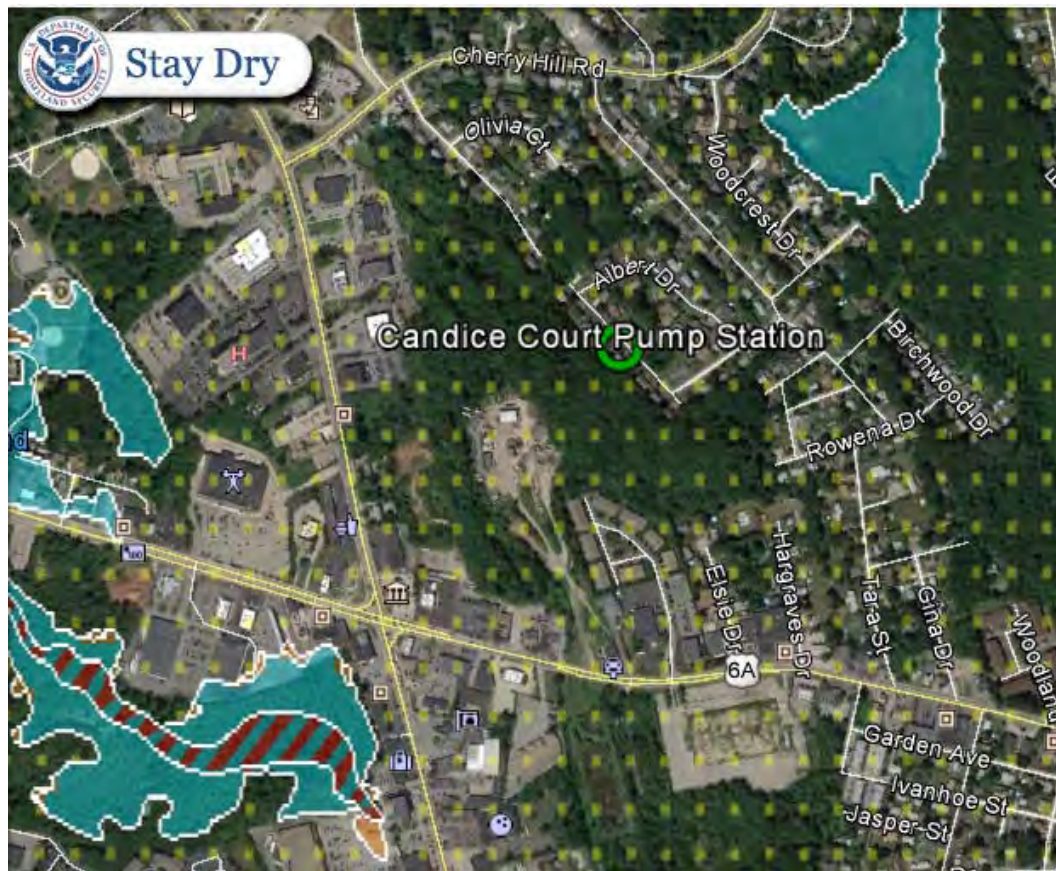
FEMA Flood Plain Review

Flood Plain Overlays

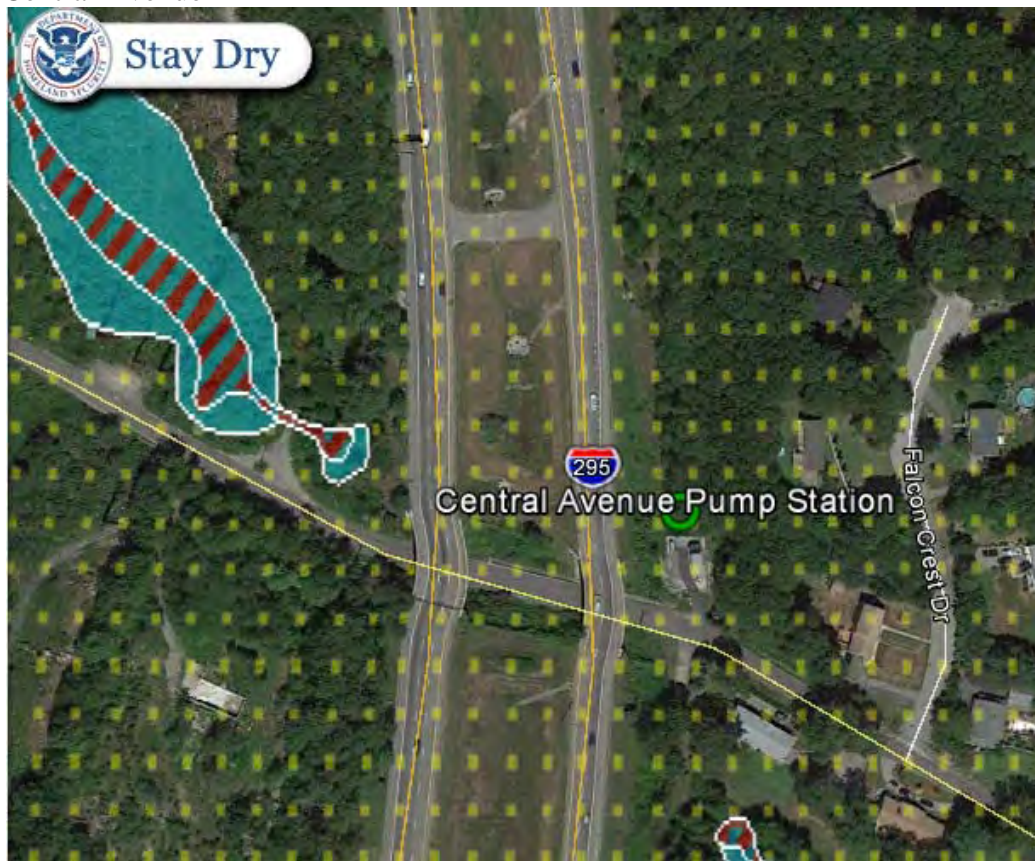
Legend



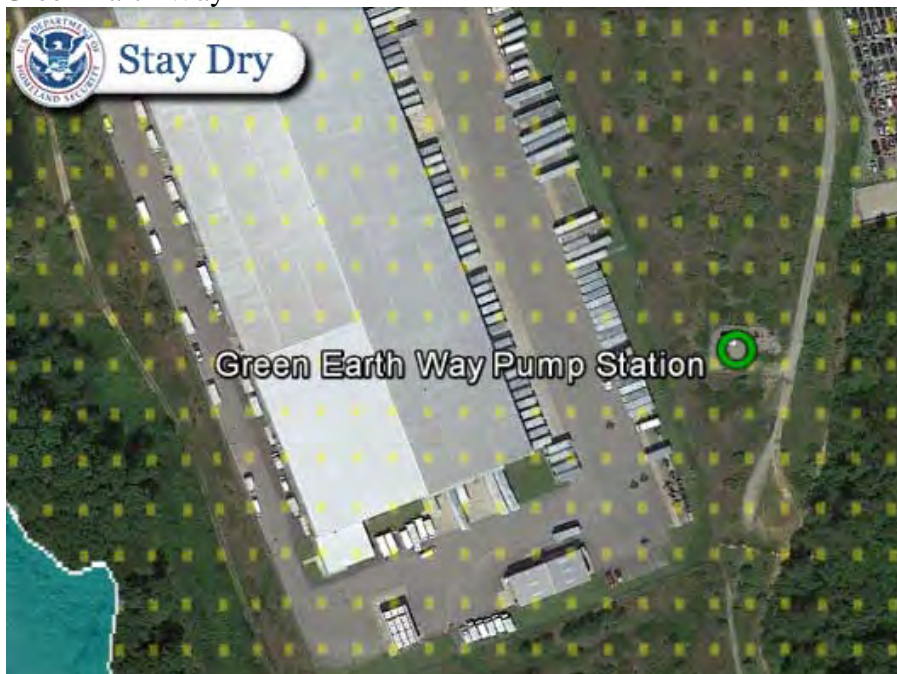
Candice Court



Central Avenue



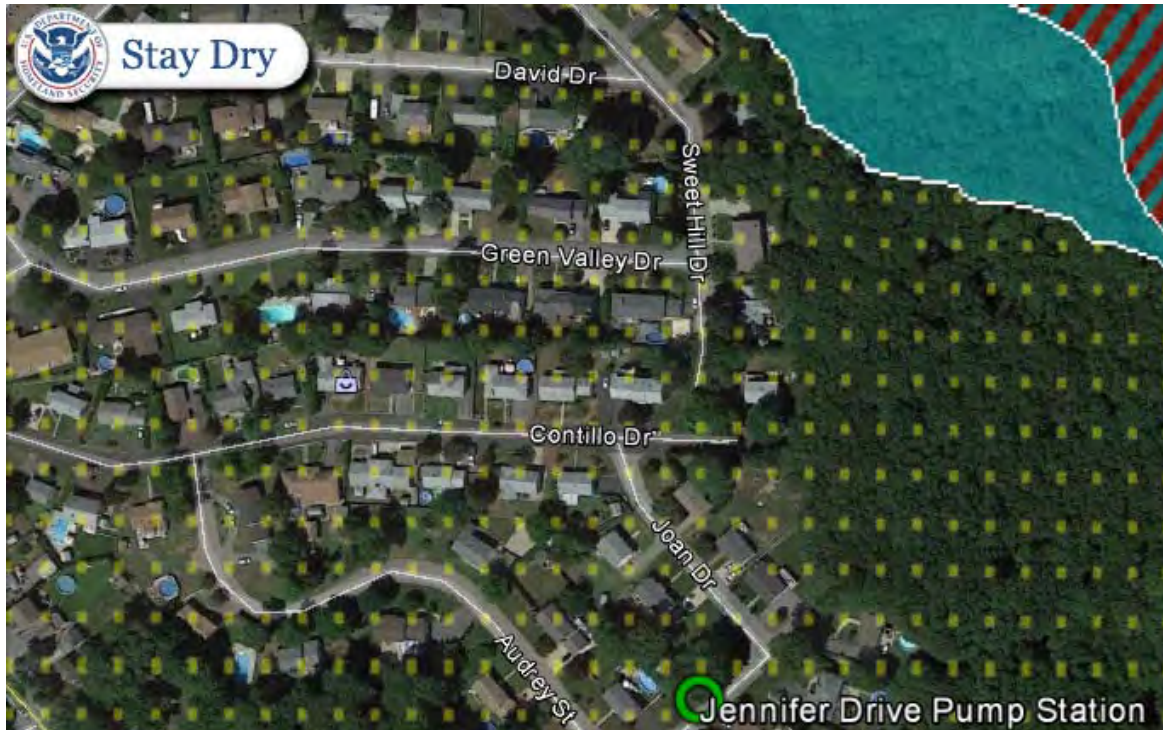
Green Earth Way



Industrial Lane



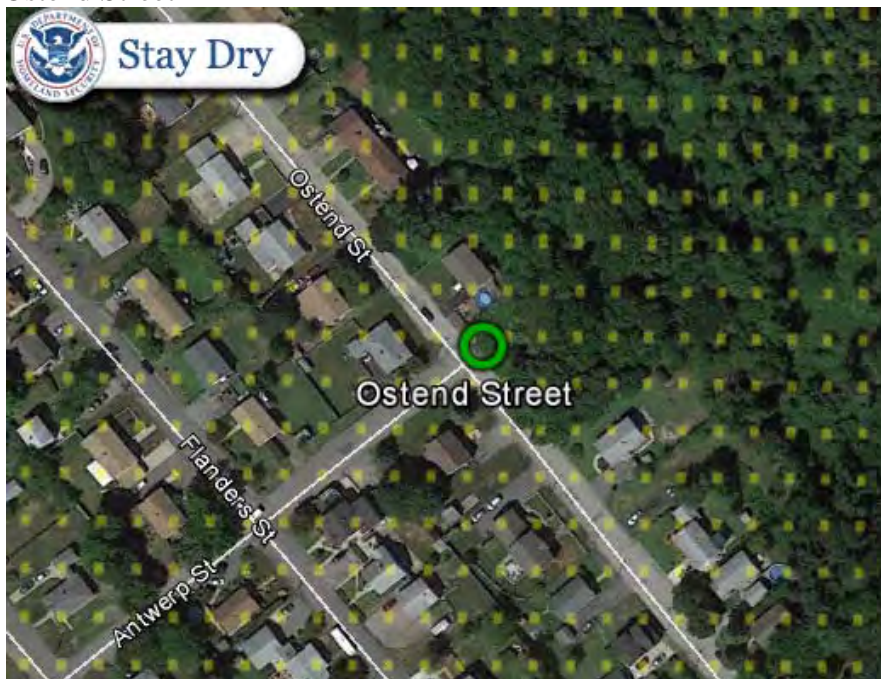
Jennifer Drive



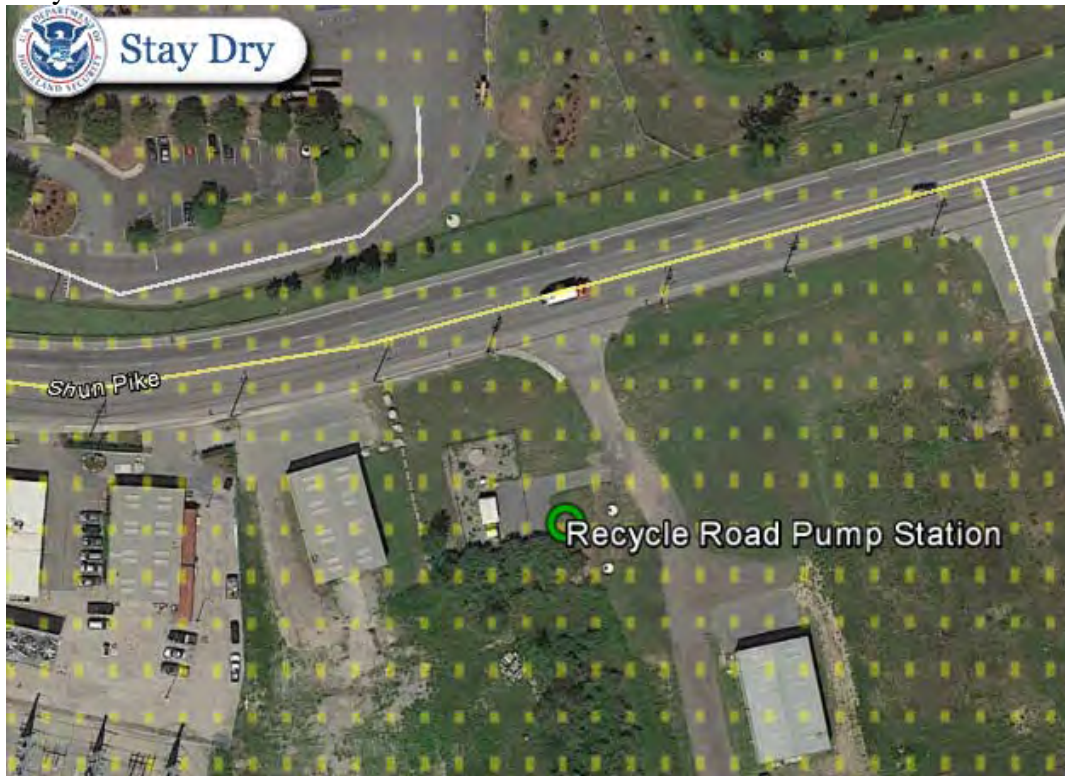
Morgan Mill Road



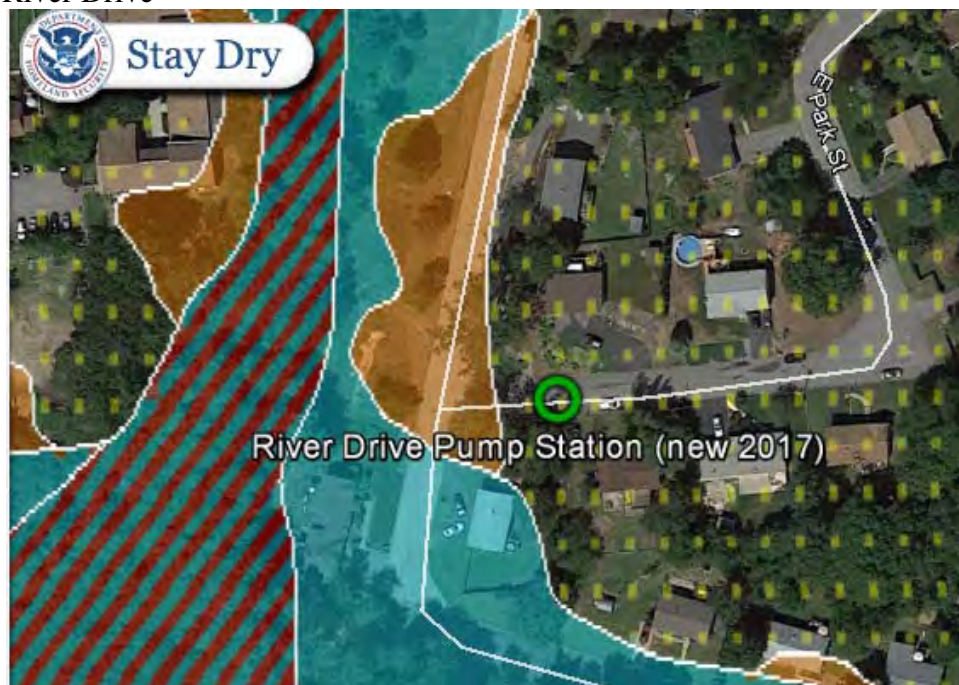
Ostend Street



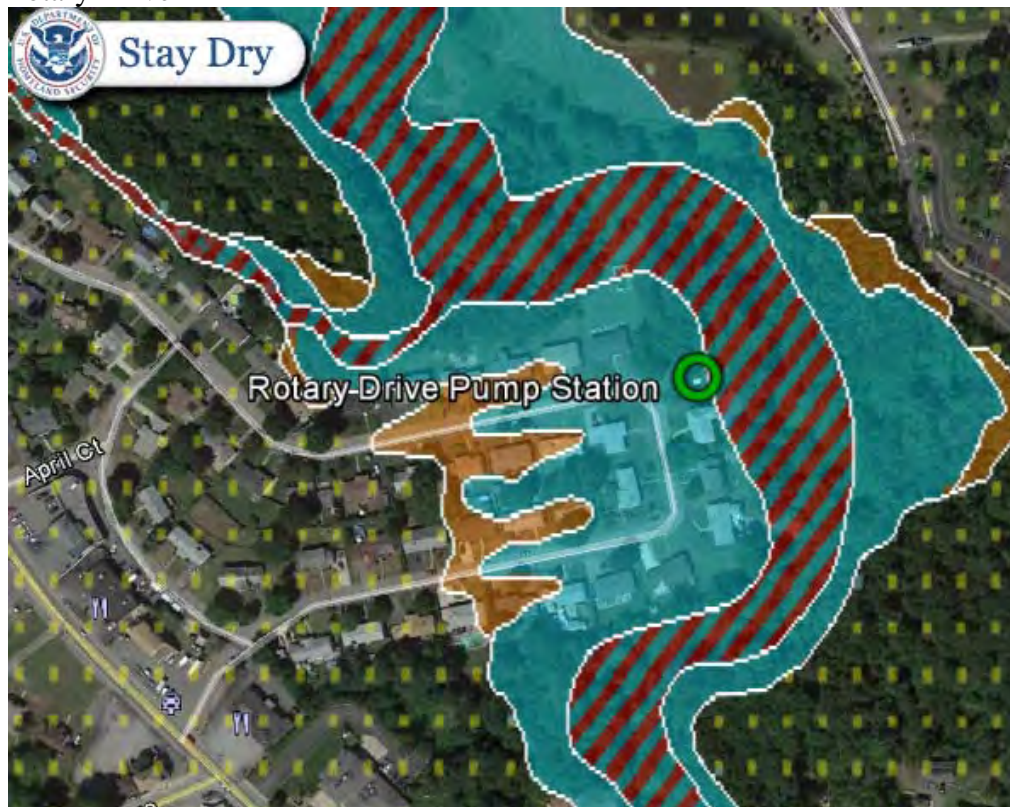
Recycle Road



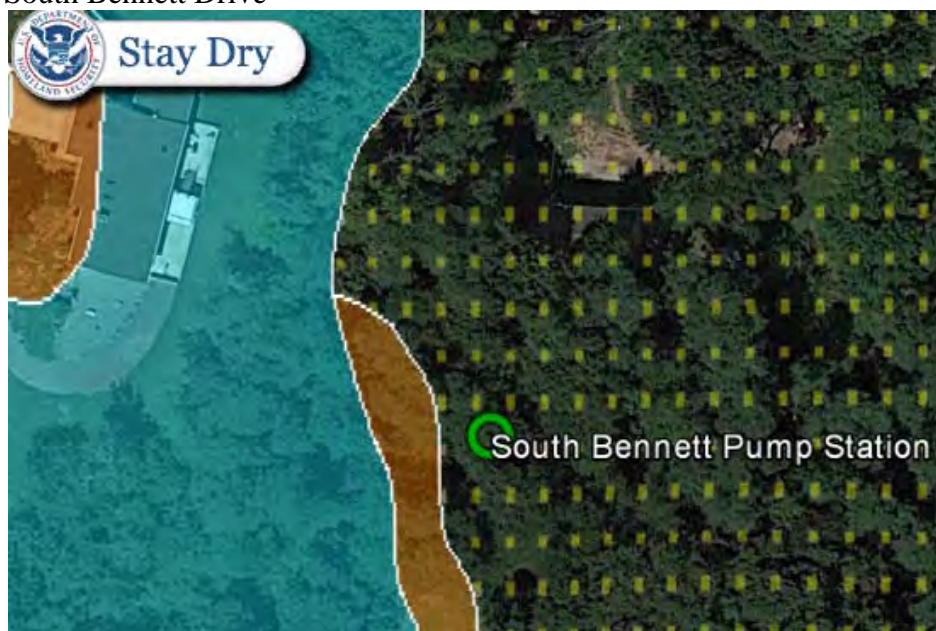
River Drive



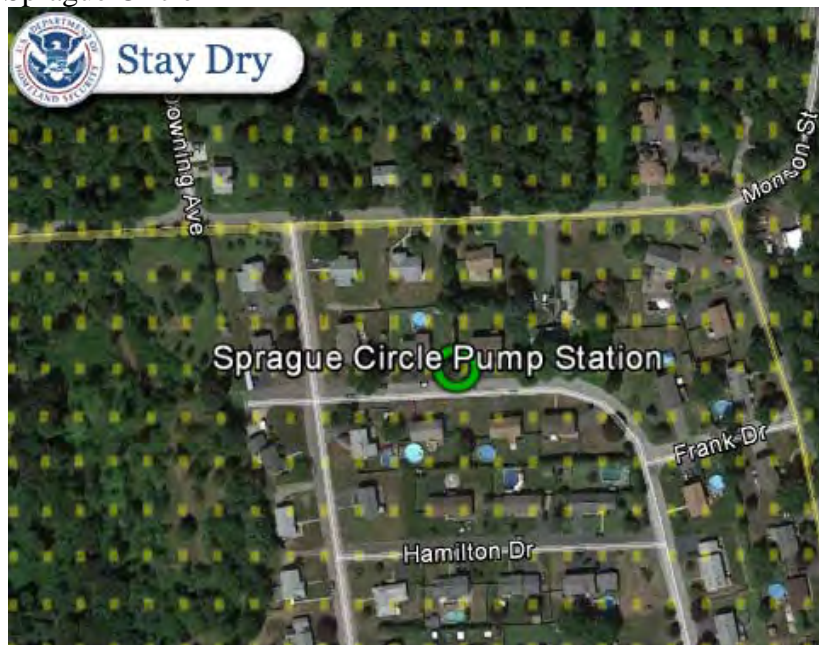
Rotary Drive



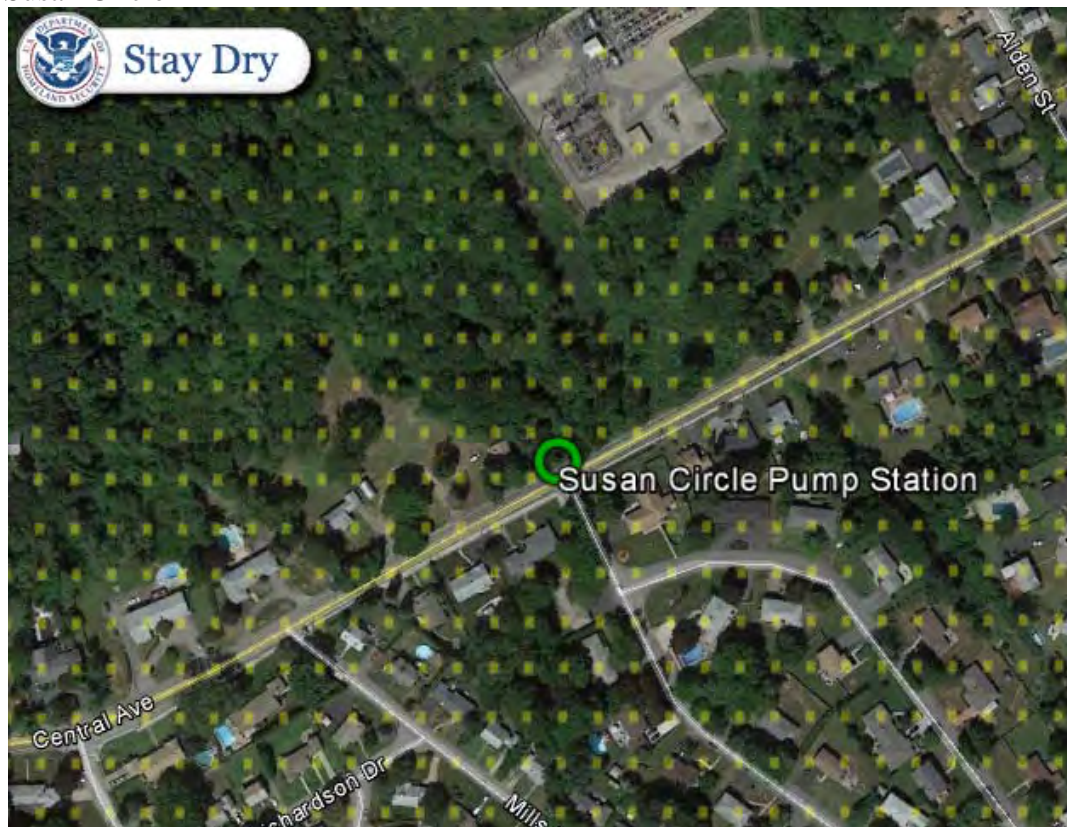
South Bennett Drive



Sprague Circle



Susan Circle



Sweet Hill Drive

